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File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030068298

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030068298 A1

TITLE: Method for treatment of intracerebral tumors

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

RULE-47

Igorevich, Svadovskiy Aleksandr

Moscow

RU

US-CL-CURRENT: <u>424/85.2</u>; <u>424/93.7</u>

Full	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, Desc
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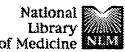
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Growth inhibition of Candida albicans by interleukin-2-induced lymph node cells.

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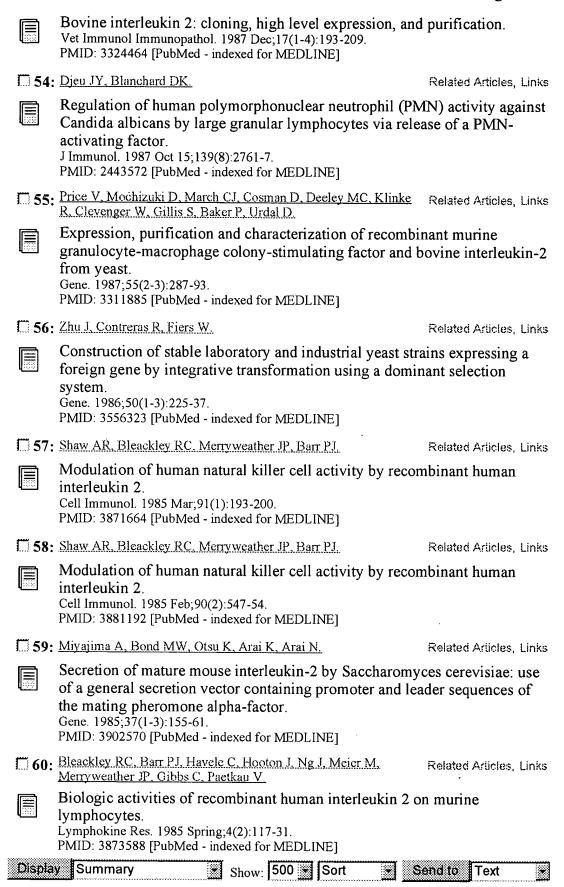
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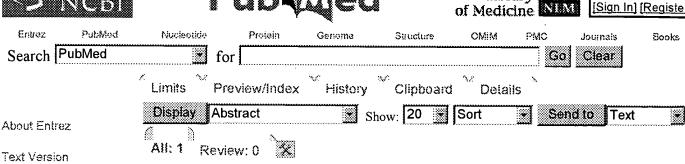
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Modulation of human natural killer cell activity by recombinant human interleukin 2.

Shaw AR, Bleackley RC, Merryweather JP, Barr PJ.

Recombinant human IL-2, secreted by yeast harboring a plasmid containing a synthetic IL-2 gene, is biologically active in augmenting human natural killer (NK) cell activity. A dose-dependent linear stimulation of NK activity was obtained against the chronic myelogenous leukemia cell line K562 over the range of 3 to 300 units/ml of IL-2. Enhancement of NK activity was similarly demonstrable against the less NK-sensitive carcinoma cell lines LoVo and SKOSC. IL-2 could also be demonstrated to augment antibody-dependent cellular cytotoxicity (ADCC) against SKOSC targets. IL-2 responsiveness segregated with a non-E-rosetting fraction comprising 11% of postfractionation lymphocytes, and containing 94% of the recoverable NK activity, suggesting that IL-2 might operate directly upon the NK cell rather than through an accessory cell. This is believed to be the first demonstration of NK stimulatory activity by the product of a totally synthetic human IL-2 gene. The availability, purity, and NK-enhancing properties of the recombinant IL-2 make it a potentially important agent for clinical trial.

PMID: 3881192 [PubMed - indexed for MEDLINE]

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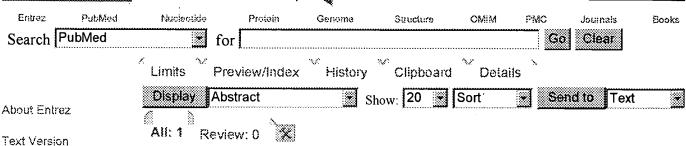
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Expression, purification and characterization of recombinant murine granulocyte-macrophage colony-stimulating factor and bovine interleukin-2 from yeast.

Price V, Mochizuki D, March CJ, Cosman D, Deeley MC, Klinke R, Clevenger W, Gillis S, Baker P, Urdal D.

Immunex Corporation, Seattle, WA 98101.

Expression and secretion of two lymphokines, murine granulocytemacrophage colony-stimulating factor (MuGM-CSF) and bovine interleukin-2 (BoIL-2), to levels of 50-60 mg per liter were achieved by placing these cDNAs in a Saccharomyces cerevisiae expression vector that utilized the yeast alcohol dehydrogenase-2 promoter and alpha-factor leader peptide. These lymphokines were purified to homogeneity by direct application of the crude yeast medium to reversed-phase high-performance liquid chromatography. Despite the fact that both lymphokines contain at least one N-glycosylation site and have identical N-terminal residues (Ala-Pro-Thr), recombinant (R) GM-CSF was found to be heterogeneously glycosylated by yeast while RBoIL-2 was secreted without glycosylation. Additionally, approximately 40% of the RGM-CSF was found to be proteolytically cleaved after the second amino acid residue, while RBoIL-2 was found to be intact.

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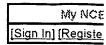
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Induction and regulation of cytotoxic T cells by microbial antigens and recombinant interleukin 2.

Piccolella E, Lombardi G, Gobbi M, Gilardini MS, Del Porto P, Dolei A, Fioravanti D, Cochi S, Manella E, Colizzi V.

Department of Cellular and Developmental Biology, I University of Rome.

The proliferation and development of cytotoxic T cells was investigated in human peripheral blood mononuclear cell (PBMC) cultures stimulated with an antigenic extract from Candida albicans (MPPS), or with the purified protein derivative from Mycobacterium tuberculosis (PPD), or with human recombinant interleukin 2 (rIL-2). Microbial antigen- and rIL-2-induced cytotoxic T cells were able to lyse both natural killer (NK) sensitive and resistant targets. No correlation was observed between the development of T cell cytotoxicity and interferon (IFN) production in vitro. The addition of anticlass II monoclonal antibodies at the beginning of MPPS/PPD-stimulated cultures inhibited the cell proliferation, IFN production and T cell cytotoxicity, while all these cellular activities were not inhibited by anti-class II antibodies in rIL-2-stimulated cultures. Finally, antibodies to class I determinants inhibit T cell cytotoxicity, suggesting a role of such determinants in the development of the non-adaptive immunity to microbial infections.

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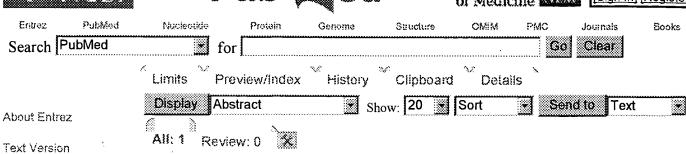
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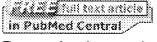
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1: Infect Immun. 1988 Sep; 56(9):2350-5.

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Protective immunity in murine histoplasmosis: functional comparison of adoptively transferred T-cell clones and splenic T cells.

Deepe GS Jr.

Department of Medicine, University of Cincinnati College of Medicine, Ohio 45267-0560.

In this study, I examined whether a murine T-cell line and three clones that recognize Histoplasma capsulatum antigens in vitro could confer protection in vivo against a challenge of Histoplasma yeasts. C57BL/6 mice were each inoculated with 5 X 10(4) yeasts intravenously; 1 h later, 5 X 10(6) or 2 X 10 (7) resting T cells were inoculated intravenously. At week 1 of infection, the T-cell line and all clones failed to reduce the number of H. capsulatum CFU in the spleens of mice compared with numbers in infected controls. Administration of recombinant interleukin 2 or cyclophosphamide to infected mice did not potentiate the functional activity in vivo of either the T-cell line or the clones. In contrast, inoculation with 2 X 10(7) CD4+ but not CD8+ cells isolated from the spleens of mice immunized with 10(6) viable yeast cells sharply diminished the number of CFU in the spleens of infected animals. Moreover, splenic CD4+ cells from immune mice transferred a delayed-type hypersensitivity response, whereas the T-cell line and clones did not. Injection Injection of an equal number of cloned T cells and CD8+ splenocytes from immune mice did not transfer resistance to infected mice. Additional studies were undertaken to determine if the ineffectiveness of cloned T cells was associated with a failure to migrate to and survive within spleens of infected mice. B6.PL Thy-1a/Cy mice, which are genetically identical to C57BL/6 mice except that T cells of the former bear Thy-1.1 rather than Thy-1.2, were inoculated with Histoplasma yeasts and then injected with immune CD4+ splenocytes or a T-cell clone. At days 1 and 7 of infection, virtually no Thy-1.2+ cells were detected in the spleens of infected mice given cloned T cells. However, the spleens of animals inoculated with immune CD4+ cells contained a small but significant (P less than 0.01) proportion of Thy-1.2+ cells at both day 1 and day 7 postinoculation of H. capsulatum. Thus, the failure of T-cell clones to transfer protection against H. capsulatum may be explained by defective trafficking or poor survival in vivo or both.

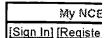
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Use of a cDNA expression-cloning vector and a secretion vector for mammalian gene expression in Saccharomyces cerevisiae.

Miyajima A, Arai K.

Publication Types:

- Review
- Review, Tutorial

PMID: 2679929 [PubMed - indexed for MEDLINE]

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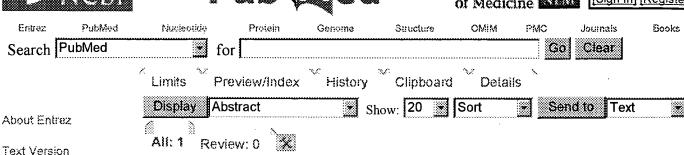
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1: Int J Immunopharmacol. 1990;12(4):409-12.

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Effect of human interleukin-2 from different sources on lymphocyte and airway beta-adrenoceptor function.

Van Oosterhout AJ, Nijkamp FP.

Department of Pharmacology, Faculty of Pharmacy, University of Utrecht, The Netherlands.

The effect of recombinant human interleukin-2 (rh IL-2, Genzyme, yeast derived) on the beta-adrenoceptor function of human peripheral blood mononuclear cells (PBMC), guinea pig splenic lymphocytes and isolated guinea pig tracheal spirals was investigated. Rh IL-2 (Genzyme, yeast derived) induces a dose dependent inhibition of the isoprenaline-stimulated cAMP production in PBMC and splenic lymphocytes after a two hour preincubation period. The inhibition is significant at 0.01 U/ml IL-2 and reaches a maximum at 1 U/ml amounting 81 +/- 8% and 76 +/- 6% for human PBMC and guinea pig splenic lymphocytes respectively. The sensitivity of isolated guinea pig tracheal spirals to isoprenaline is also significantly decreased after a two hour preincubation period with 1 U/ml rh IL-2 (Genzyme, yeast derived). In contrast, rh IL-2 (Cetus, bacteria derived) does not affect the beta-adrenoceptor function of human PBMC, guinea pig splenic lymphocytes and isolated tracheal spirals, after a two-hour preincubation period. Furthermore, human cell-line derived IL-2 (Jurkat, Genzyme) also does not influence human PBMC beta-adrenoceptor function. It can therefore be concluded that IL-2 does not affect lymphocyte and airway betaadrenoceptor function after a two hour preincubation period. The inhibition of beta-adrenoceptor function by yeast derived rh IL-2 (Genzyme) is therefore probably not related to IL-2.

PMID: 2167879 [PubMed - indexed for MEDLINE]

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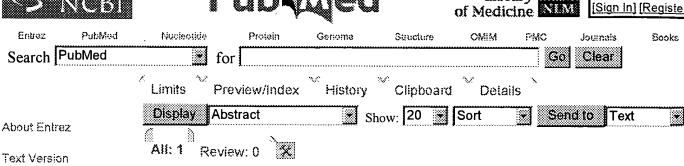
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1: Cell Immunol. 1990 Sep;129(2):271-87.

Related Articles, Links

Induction of LAK-like cells in the peritoneal cavity of mice by inactivated Candida albicans.

Scaringi L, Cornacchione P, Rosati E, Boccanera M, Cassone A, Bistoni F, Marconi P.

Department of Experimental Medicine and Biochemical Sciences, University of Perugia, Italy.

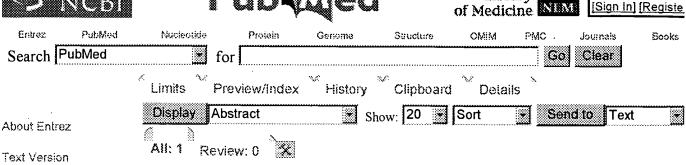
We have investigated the effect of multiple administrations of inactivated Candida albicans (CA) cells on induction of non-MHC-restricted antitumor cytotoxic responses both in normal and congenitally athymic (nude) mice. Intraperitoneal inoculation of CD2F1 mice with five doses of 2 x 10(7) CA cells over a 2-week interval was associated with the induction of peritoneal exudate cells (PEC) that mediated natural killer cell activity. These cells, in contrast to those elicited by a single dose of CA, killed both NK-sensitive and NK-resistant tumor target cells in vitro. This broad-spectrum, antitumor cytotoxicity peaked 1 day after the last injection of CA, and decreased to control values within 6 (NK-resistant) or 14 (NK-sensitive target cells) days. Cytotoxicity could be recalled to a high level by a boosting injection of CA or a major mannoprotein-soluble antigen (MP) from the Candida cell wall, given 30 days after multiple CA treatment. Upon a 24-hr in vitro incubation, CAinduced peritoneal immunoeffectors lost their killing activity unless human recombinant interleukin-2 (rIL-2) was added to cultures. The non-MHCrestricted cytotoxic PEC activity induced by CA was mainly associated with nonadherent, nonphagocytic large granular lymphocytes (LGL) which exhibited the following phenotypes: (i) asialo GM1+, Lyt 2.2-, and partially Thy 1.2+ (effectors active against NK-sensitive targets) and (ii) asialo GM1+. Lyt 2.2-, and Thy 1.2+ (effectors active against NK-resistant targets). Nude mice also responded to multiple CA inoculations by displaying high cytotoxic activity against NK-sensitive targets and significant cytotoxicity against NKresistant targets. This cytotoxicity could be recalled on Day +30, and the cytotoxic effectors involved were highly sensitive to anti-asialo GM1 plus complement treatment. Overall, the results add further experimental evidence to the wide range of immunomodulatory properties possessed by C. albicans, and demonstrate that the majority of antitumor cytotoxic activity induced by fungal cells was due to lymphokine-activated killer (LAK)-like effectors.

PMID: 2166624 [PubMed - indexed for MEDLINE]









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1: Cell Immunol. 1992 Feb;139(2):438-54.

Related Articles, Links

In vivo modulation of lymphokine-activated killer cell activity by cell wall components of Candida albicans.

Scaringi L, Rosati E, Cornacchione P, Rossi R, Marconi P.

Institute of General Pathology, University of Perugia, Italy.

We have previously reported that inoculating CD2F1 mice intraperitoneally with five doses of 2 x 10(7) inactivated Candida albicans (CA) cells was associated with the induction of lymphokine-activated killer (LAK)-like effectors. In this study we investigated the ability of some purified cell wall components of CA (CA-CW) to induce LAK-like cells in vivo. Multiple administrations of glucan ghost (GG), a mannoprotein mixture (MP) and a low-protein mannan fraction (M) at variance with whole CA did not induce LAK-like cells in the peritoneal cavity. However, the broad-spectrum antitumor cytotoxicity induced by CA could be recalled to a high level by a booster dose of MP and M, but not GG, given up to 70 days after the multiple CA-treatment. This induced cytotoxicity was maximum when the booster was given on Day +14 after CA-treatment and minimum on Day +70. In CAtreated mice, inoculated on Day +30 with CA or MP, LAK-like cytotoxicity was already significantly increased 4 hr after the booster, but the maximum value was reached at 24 hr. Anti-mannan antibodies did not interfere with LAK-like cells induction by CA because splenectomy before CA-treatment or passive administration of anti-mannan antibodies had no effect on the rapid activation of cytotoxicity by CA or a booster dose of MP. Administration of recombinant human interleukin-2 (rhIL-2) to CA-treated mice induced a higher level of NK activity than that induced by the same dose in untreated control mice, but did not activate LAK-like effectors. The results indicate that LAK-like effectors are easily generated in the peritoneal cavity by a booster with a defined antigenic constituent of CA cell wall for a long period in CAsensitized mice.

PMID: 1733513 [PubMed - indexed for MEDLINE]

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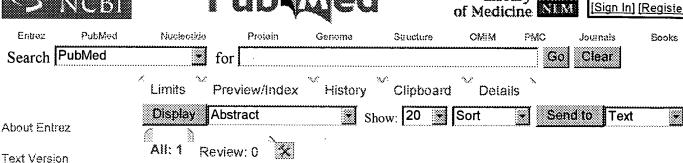
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1: Cell Immunol. 1994 May; 155(2):265-82.

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FULL-TEXT ARTICLE

Induction and persistence in vivo of NK/LAK activity by a mannoprotein component of Candida albicans cell wall.

Scaringi L, Cornacchione P, Rosati E, Fettucciari K, Rossi R, Marconi P.

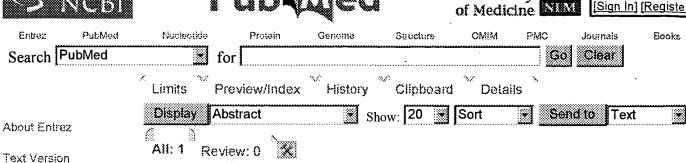
Department of Clinical Medicine, University of Perugia, General Hospital, Italy.

In a previous study we demonstrated that NK/LAK effectors are quickly induced in the peritoneal cavity of CD2F1 mice by a booster dose with inactivated Candida albicans (CA) cells or by the purified cell wall mannoprotein (MP), for a long time after CA sensitization. In this study we investigated the immunologic nature and kinetics of early events of the booster phenomenon. Intraperitoneal inoculation of CA in CD2F1 mice, 30 days after pretreatment with five doses of CA (2 x 10(7) cells/mouse) over a 2-week period (CA-5d treatment), elicited a very rapid recruitment of asialo GM1+ cells, L3T4+ cells, and Ly 2+ cells. Asialo GM1+ cells and Ly 2+ cells reached a maximum number 12 hr after the booster dose, while L3T4+ cells reached the maximum after 24 hr. The number of L3T4+ cells was about twofold greater than Ly 2+ cells at all times tested. A similar kinetic pattern was found after MP booster. In C57BL/6 mice we confirmed that CA and MP boosters induced LGL which express a NK antigen, detected by 3A4 mAb, and the activation marker CD25. The peak of non-MHC-restricted PEC cytotoxicity, which was reached 24 hr after MP or CA booster, did not correspond to the time (12 hr) for maximum number increase of asialo GM1+ cells and 3A4+ cells. Two hours after CA or MP booster in PEC there was a rapid and strong increase of IL-2 mRNA expression, which persisted at a high level 24 hr after booster. In CA-5d-pretreated mice, a persistent NK/LAK-like activity in the peritoneal cavity can be maintained by boosters with MP administered every 3 days. Such treatment, which we performed up to 15 days after CA sensitization, rendered the mice more responsive to further MP boosters. Effects of CA were not restricted to the peritoneal compartment because (a) there was a rebound of splenic NK activity about 10 days after CA-5d treatment by ip route and (b) CA given by iv route significantly increased splenic NK activity up to 15-20 days after CA-5d treatment. Recombinant human interleukin 2 (rhIL-2), given ip to mice (1000 U/mouse) in combination with CA during CA-5d treatment and with MP in the booster, strongly increased the level of peritoneal NK/LAK activity and PEC cellularity (ABSTRACT TRUNCATED AT 400 WORDS)









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1: Vestn Khir Im I I Grek. 1995;154(2):57-60.

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[A first trial of the use of human recombinant interleukin (rIL-2) in patients with tumorous diseases]

[Article in Russian]

Grinev MV, Tsibin IuN, Tarelkina MN, Gromov MI, Shirokov DM, Pivovarova LP, Frolov GM, Razumova NK, Masiianskaia TI, Ariskina OB.

Clinical approbation of human recombinant yeast human interleukin-2 (rIL-2) was carried out in 10 patients with III-IV stages of tumor that have undergone 65 intravenous drop by drop infusions of the drug as a course of 5-11 injections in the dosage of 1-8 mln/un. The drug toxicity was shown in 4 mln and especially, in 8 mln/un dose administration. That's why the dose of 1-2 mln/un is recommended. This dose was not followed by any serious complications, and the number of slightly complicated cases was significantly decreased as compared to similar rIL-2 drug made by the "Cetus Corporation" firm. Immunostimulating effect of yeast rIL-2 was found which appeared to be able to reach it's maximum by 3-4 administrations, with it's following disappearance or inversion, which may cause immunosuppression.

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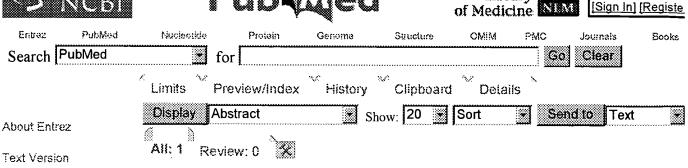
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1: Vestn Khir Im I I Grek. 2002;161(4):85-90.

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[Immunopathogenesis of severe wounds and traumas: possibilities of immune correction]

[Article in Russian]

Lebedev VF, Kozlov VK, Gavrilin SV.

The authors describe the present-day views on the nature of immune dysfunctions in severe traumas. Based on personal clinical experiences and literature data the authors discuss the role of immune dysfunctions in pathogenesis of the traumatic disease. Special attention is given to the role of the immune system in the development of the life-threatening condition: polyorganic insufficiency whose formation mainly results from disorganization and functional failure of the system of immune reactivity. Clinical investigations have shown high effectiveness of early administration for severe wounds and traumas of a new means of immunocorrection--yeast recombinant interleukin-2 of man (preparation Roncoleukin). The administration of this immunocorrector in complex schemes of intensive therapy of the victims was shown to prevent the development of severe pyoseptic pathology and perfectly change the course of the traumatic disease.

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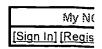
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1 2: Kang SG, Ryu CH, Jeun SS, Park CK, Shin HJ, Kim JH, Kim MC, Related Articles, Links Kang JK.

Lymphokine activated killer cells from umbilical cord blood show higher antitumor effect against anaplastic astrocytoma cell line (U87) and medulloblastoma cell line (TE671) than lymphokine activated killer cells from peripheral blood.

Childs Nerv Syst. 2004 Mar; 20(3):154-62. Epub 2004 Feb 13. PMID: 14968374 [PubMed - indexed for MEDLINE]

3: Nani F. Freedman HI.

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Math Biosci. 2000 Feb;163(2):159-99.

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4: Glick RP, Lichtor T, de Zoeten E, Deshmukh P, Cohen EP. Related Articles, Links

Prolongation of survival of mice with glioma treated with semiallogeneic fibroblasts secreting interleukin-2.

Neurosurgery, 1999 Oct; 45(4):867-74.

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5: Kikuchi T, Joki T, Abe T, Ohno T.

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Antitumor activity of killer cells stimulated with both interleukin-2 and interleukin-12 on mouse glioma cells.

J Immunother. 1999 May;22(3):245-50.

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6: Yamamoto K, Tanaka R, Yoshida S, Ono K, Mori H, Taniguchi Y, Related Articles, Links Oda T, Watanabe T.

Effects of OK-432 on the proliferation and cytotoxicity of lymphokineactivated killer (LAK) cells.

J Immunother. 1999 Jan;22(1):33-40.

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7: Fujimiya Y, Suzuki Y, Katakura R, Miyagi T, Yamaguchi T, Related Articles, Links Yoshimoto T, Ebina T.

In vitro interleukin 12 activation of peripheral blood CD3(+)CD56(+) and CD3(+)CD56(-) gammadelta T cells from glioblastoma patients.

Clin Cancer Res. 1997 Apr;3(4):633-43.

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	Adoptive immunotherapy of patients with metastatic renal lymphokine-activated killer cells, interleukin-2 and cyclopterm results. Int J Urol. 1998 Jan;5(1):16-21.	l cell cancer using phosphamide: long-
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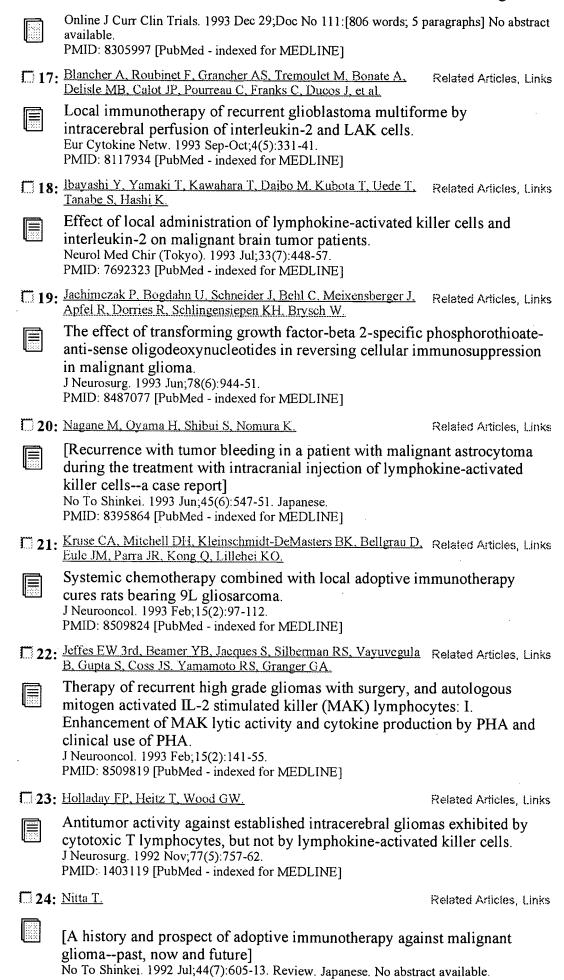
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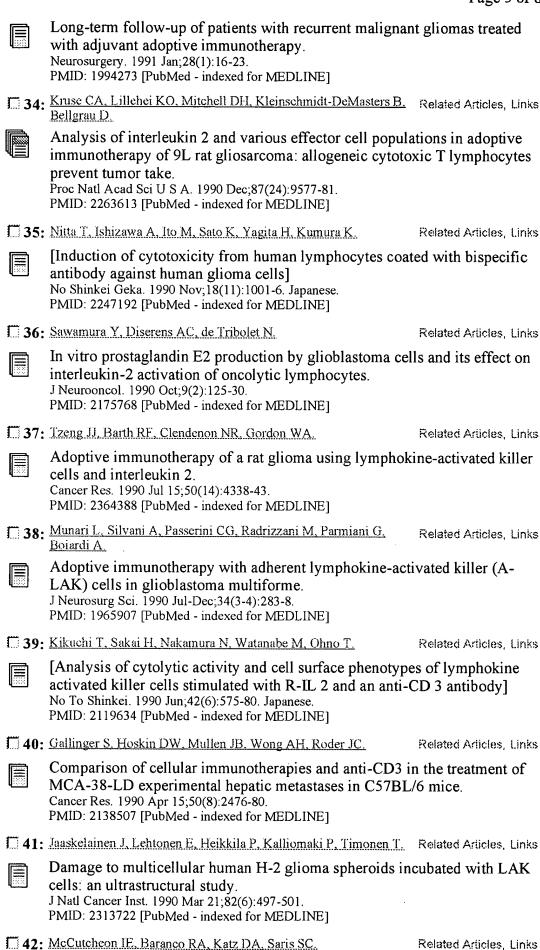
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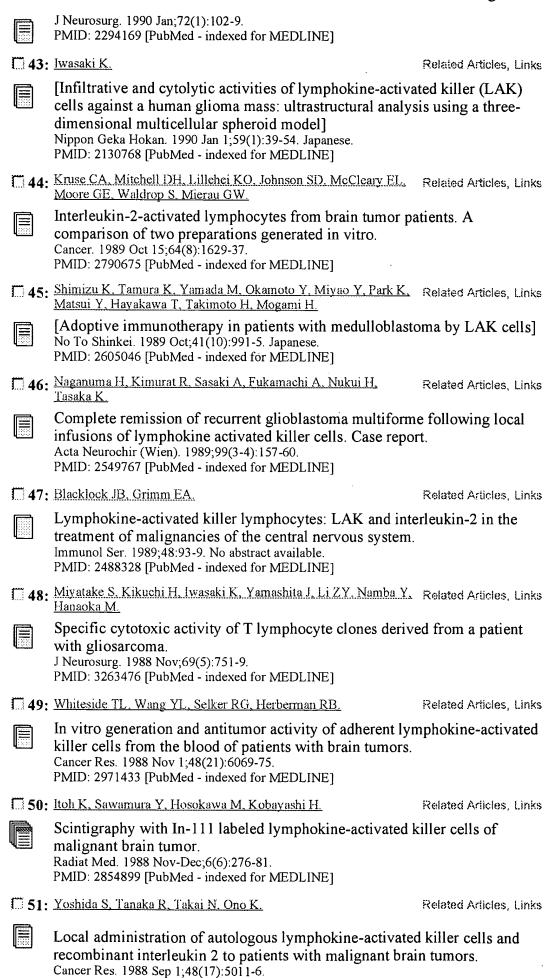


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Adoptive immunotherapy of intracerebral metastases in mice.

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J Neurosurg. 1986 May;64(5):743-9.

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PMID: 3517250 [PubMed - indexed for MEDLINE]

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In vitro killing of human glioblastoma by interleukin-2-activated autologous lymphocytes.

J Neurosurg. 1986 Jan;64(1):114-7.

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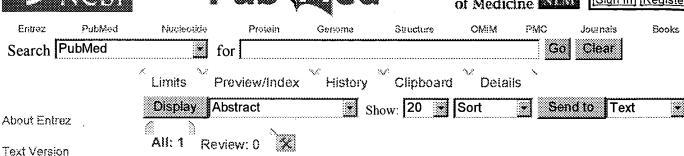
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In vitro killing of human glioblastoma by interleukin-2-activated autologous lymphocytes.

Jacobs SK, Wilson DJ, Kornblith PL, Grimm EA.

Culture of peripheral blood lymphocytes (PBL) from brain-tumor patients with recombinant interleukin-2 (IL-2) results in the activation of lymphokineactivated killer cells (LAK) with the capacity to lyse autologous and allogeneic glioblastoma. In this study, PBL obtained from brain-tumor patients were cultured with or without IL-2 for 3 to 7 days and then tested for their ability to lyse target cells in a 4-hour chromium release cytotoxicity assay. The PBL were drawn 1 to 2 weeks following operative tumor debulking. Cells used as targets included fresh brain-tumor cells obtained at the time of craniotomy, fresh brain-tumor cells grown from 1 to 3 weeks in tissue culture, fresh autologous PBL, and allogeneic glioblastoma cells grown in tissue culture. Peripheral blood lymphocytes from brain-tumor patients that were cultured without IL-2 did not significantly lyse autologous or allogeneic glioblastoma. However, when these PBL were cultured with IL-2, LAK were generated which produced marked lysis of autologous as well as allogeneic tissue-culture glioblastoma in all of eight cases. Significant lysis of autologous fresh tumor by patient LAK was observed in four of five experiments. By contrast, patient LAK did not kill autologous normal PBL. The ability to generate LAK was not influenced by the patient's age, previous therapy, or the administration of steroids.

PMID: 3001247 [PubMed - indexed for MEDLINE]

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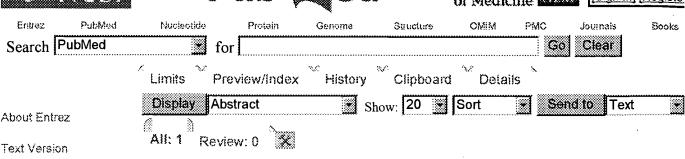
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Interleukin-2 and autologous lymphokine-activated killer cells in the treatment of malignant glioma. Preliminary report.

Jacobs SK, Wilson DJ, Kornblith PL, Grimm EA.

Nine patients with malignant glioma were treated with the lymphokine interleukin-2 (IL-2) or with lymphokine-activated killer (LAK) cells, and one patient received combination therapy with both LAK cells and IL-2. The LAK cells were generated by culturing recombinant IL-2 with peripheral blood lymphocytes obtained from brain-tumor patients. Escalating doses of LAK cells (10(8) to 10(10] or IL-2 (10(4) to 10(6) U) were administered intraoperatively by direct injection into the brain tissue surrounding the cavity left by debulking the tumor. There were no signs of systemic or neural toxicity following treatment. The selective killing of the tumor by LAK cells used for these treatments was demonstrated by a chromium release microcytotoxicity assay which showed in vitro the ability of the LAK cells to lyse glioma cells but not normal cells.

Publication Types:

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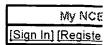
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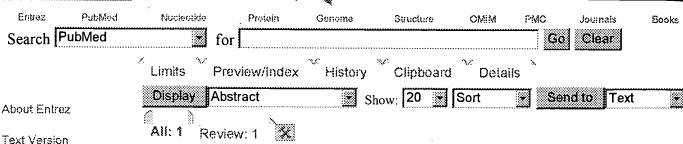
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[Efficacy of interferon-beta and interleukin-2 as cytokines for malignant brain tumor treatment]

[Article in Japanese]

Shitara N, Nakamura H, Genka S, Takakura K.

Dept. of Neurosurgery, University of Tokyo.

The role of Interferon-beta (IFN-beta) as maintenance therapy for malignant gliomas and medulloblastomas was described. The low dose but continuous long-term administration of IFN-beta as a maintenance treatment for malignant gliomas after the induction therapy with surgery and chemoradiotherapy demonstrated the complete remission of the tumor in six cases of malignant gliomas. Such method of IFN-beta administration did not induce any serious side effects and might be useful for treatment of malignant gliomas. In addition, recent advance of adoptive immunotherapy using lymphokine activated killer cells (LAK) was briefly reviewed.

Publication Types:

- Case Reports
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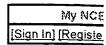
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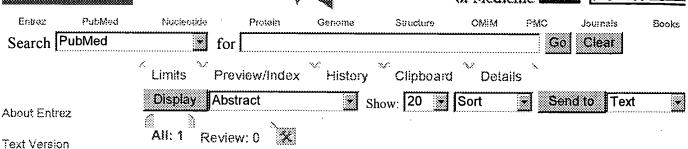
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An adoptive immunotherapy of patients with medulloblastoma by lymphokine-activated killer cells (LAK).

Okamoto Y, Shimizu K, Tamura K, Miyao Y, Yamada M, Matsui Y, Tsuda N, Takimoto H, Hayakawa T, Mogami H.

Department of Neurosurgery, Osaka University Medical School, Japan.

An adoptive immunotherapy of 6 patients with medulloblastoma by lymphokine-activated killer (LAK) cells is described. They were from 2 to 9 years in age and had cerebrospinal fluid (CSF) dissemination of the tumours. All patients underwent the whole-neuraxis irradiation and chemotherapy. After the usual treatments, they were submitted to an adoptive transfer of one-haplotype identical LAK cells. The LAK cells were induced from peripheral blood lymphocytes (PBL) of their relatives with human recombinant interleukin-2 (rIL-2). 3 - 15 x 10(9) LAK cells were transferred intrathecally in 2-3 months. In 3 of 6 patients, neurological signs were improved and malignant cells had never been detected on CSF cytology after the adoptive immunotherapy. One among these 3 patients showed complete response in 20 months. Thus, this is an attractive approach for the treatment of medulloblastoma with CSF dissemination of the tumour which current therapeutic intervention can not cure.

Publication Types:

Case Reports

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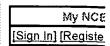
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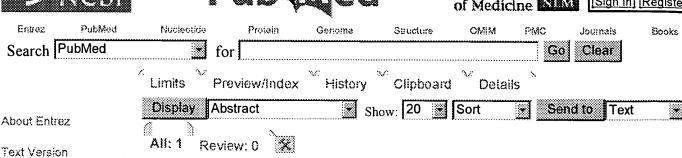
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[Observations on the local administration of autologous lymphokine activated killer cells and recombinant interleukin-2 in patients with malignant gliomas]

[Article in Japanese]

Yoshida S, Takai N, Ono K, Saito T, Tanaka R.

Department of Neurosurgery, Niigata University, Japan.

Recently lymphocytes from patients with cancer have proved to be activated by interleukin 2 (IL-2), and show a strong cytotoxicity. On the basis of this fact, we have tried to inject lymphokine activated killer (LAK) cells and recombinant IL-2 (rIL-2) directly into the cavity of brain tumor. We describe here preliminary results of the local administration of LAK cells and the rIL-2 to patients with malignant gliomas. Lymphocytes from the patients were separated from venous blood on a Ficoll gradient. By culture with rIL-2 for five days, the lymphocytes were activated to generate LAK activity, which was measured by chromium release assay. These LAK cells were capable of killing various kinds of tumor cells including their own cells. For example, their LAK activity to Daudi cell and self tumor cells was approximately 66 and 49%, respectively. These LAK cells showed a strong killing activity in excess of 40 to 70% against various tumor cells. Furthermore, activated killer cells, such as LAK cells, phytohemagglutinin-activated killer cells, and their precursor cells were serologically studied for the recognition of their biological characteristics. The phenotype of these LAK cells were sensitive to Leu 1, 3a, 7, and extremely so to 11 monoclonal antibodies, whereas LAK precursors were mainly sensitive to Leu 11 monoclonal antibodies. This observation led us to think that LAK cells belonged to the polyclonal cell populations. Following the fundamental studies, we applied this adoptive immunotherapy to 12 patients with malignant gliomas in whom standard therapy turned to be unsuccessful. All patients had histological evidence and progressive disease in spite of standard radiochemotherapy and other treatments.(ABSTRACT TRUNCATED AT 250 WORDS)

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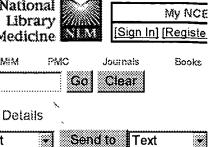
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In vivo and in vitro effect of adoptive immunotherapy of experimental murine brain tumors using lymphokine-activated killer cells.

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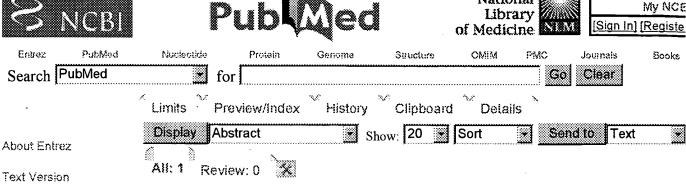
Department of Neurosurgery, Niigata University, Japan.

Adoptive immunotherapy for the experimental murine brain tumor was investigated by using lymphokine-activated killer (LAK) cells both in vitro and in vivo. Supernatants of 48-h culture medium of spleen cells from Wistar rats in the presence of concanavalin A were used as interleukin 2 (IL-2). LAK cells were generated by cocultivation of spleen cells from Fischer rats with IL-2 with the peak reactivity on Day 2 or 3 of culture. Lytic activity was observed against not only syngenic tumor cells but also allogenic and xenogenic tumor cells, while no lytic activity was observed against normal brain cells. The cell depletion test, dye exclusion test, and immunofluorescence method using monoclonal antibodies revealed that LAK cells partially belonged to the population of the activated T-cell group, but the precursor cells did not react with any monoclonal antibodies used. On the basis of these results in vivo study was performed. LAK cells and immune spleen cells were adoptively transferred to the rats i.v. or intratumorally (i.t.) on the seventh day after the inoculation of T9, a gliosarcoma induced by methylcholanthrene from Fischer rats, into the right basal ganglia. Then the survival rate and necrotic foci were compared between the groups treated with those cells and the control. The survival rate of the groups treated with LAK cells was significantly higher than that of the control (administered i.v.; P less than 0.01, administered i.t.; P less than 0.05). But the treatment with immune spleen cells was not effective. The incidence and area of necrotic foci in the tumors treated with LAK cells were greater than those of the others. Microautoradiography was also performed using [3H]thymidine-labeled LAK cells, which were administered i.v. to the models on the 14th day after the inoculation of T9. It was revealed that LAK cells accumulated in the lung shortly after the administration and then in the liver and spleen, especially in the white pulp. IL-2 inhibitor activity of the sera from the tumor-bearing rats was greater than that of normal rats (P less than 0.001), but it was depressed markedly by cyclophosphamide (P less than 0.01). The adoptive transfer of LAK cells may be one of the effective treatments of malignant brain tumor. The nature of IL-2 inhibitors is necessary to be clarified for more effective immunotherapy.









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Adoptive immunotherapy for recurrent glioblastoma multiforme using lymphokine activated killer cells and recombinant interleukin-2.

Merchant RE, Grant AJ, Merchant LH, Young HF.

Department of Anatomy, Virginia Commonwealth University, Medical College of Virginia, Richmond 23298-0001.

Thirteen patients with recurrent glioblastoma were treated with adoptively transferred autologous lymphokine activated killer (LAK) cells and recombinant interleukin-2 (rIL-2). Patients' blood mononuclear cells (MNC) obtained by leukapheresis were cultured at 2.5 million MNC per ml for 3 to 5 days in media containing 1000 U rIL-2/ml. After incubation, the nonadherent MNC from all cultures (0.5-5 X 10(9) were combined and concentrated for infusion in 5 to 10 ml saline containing 10(6) U rIL-2. Nine patients received one injection of LAK cells and rIL-2 into the brain tissue immediately surrounding the tumor cavity during craniotomy for subtotal tumor removal (Group 1). On each of the 3 days after surgery, patients received boosters of 10(6) U rIL-2 delivered into the tumor cavity through a skin flap or via an Ommaya reservoir. Approximately 1 to 2 weeks after this series of injections, these patients were treated with a second cycle of LAK cells and rIL-2 injected into the tumor cavity using the reservoir. Four patients received both adoptive immunotherapy cycles by intracavitary injection (Group 2). In this relatively small patient pool, neither age, sex, Karnofsky score, treatment history, nor anticonvulsant and steroid dosage appeared to influence a patient's ability to make LAK cells. The therapy, itself, was well-tolerated by all patients although they all displayed symptoms of aseptic meningitis and increased intracranial pressure, i.e., headache, fever, malaise on the days of LAK cell and/or rIL-2 infusion. The therapy did not appear to have a significant impact on patient survival (mean, 30 weeks) especially for those patients with a high postsurgical tumor burden. As the therapy is safe, the authors believe its efficacy can best be tested in patients with a newly diagnosed or recurrent glioblastoma which lies in an area where a near-total resection is possible.

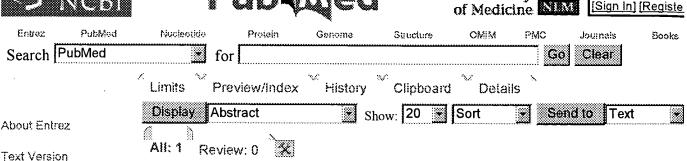
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1: J Neurosurg. 1988 Sep;69(3):403-9.

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In vitro cytolysis of primitive neuroectodermal tumors of the posterior fossa (medulloblastoma) by lymphokine-activated killer cells.

George RE, Loudon WG, Moser RP, Bruner JM, Steck PA, Grimm EA.

Department of Neurosurgery, Baylor College of Medicine, Houston, Texas.

Short-term stimulation of nonantigen-primed peripheral blood mononuclear leukocytes with interleukin-2 generates a population of oncolytic effectors designated "lymphokine-activated killer" (LAK) cells. These LAK cells express potent lytic activity against a wide spectrum of fresh or cultured autochthonous (patient's own) and allogeneic (unrelated) tumors, yet specifically spare normal tissues. In this study, cells derived from primitive neuroectodermal tumors of the posterior fossa (PNET-PF) were examined for their sensitivity to LAK cytolysis utilizing an in vitro 4-hour chromium-51release assay. Five early-passage cell lines, derived from primary PNET-PF. demonstrated significant sensitivity to LAK cell cytolysis. Lysis was equally effective in culture medium and cerebrospinal fluid. Three freshly excised PNET-PF exhibited similar susceptibility to lysis by autochthonous LAK cells. Greatly increased expansion of LAK cell cultures could be achieved by short-term stimulation with monoclonal anti-CD3 antibodies in addition to interleukin-2 activation. These findings constitute the preliminary in vitro foundations for potential intrathecal adoptive immunotherapy of PNET-PF with LAK cells.

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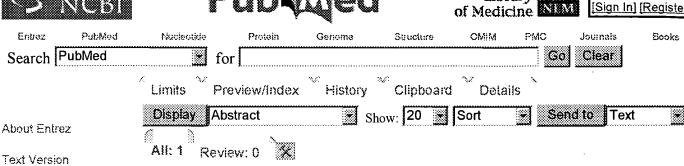
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Local administration of autologous lymphokine-activated killer cells and recombinant interleukin 2 to patients with malignant brain tumors.

Yoshida S, Tanaka R, Takai N, Ono K.

Department of Neurosurgery, Niigata University, Japan.

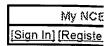
Lymphokine-activated killer cells (LAK cells) were induced from lymphocytes from patients with malignant glioma by using interleukin 2 (IL-2), and their killing activity was examined. Their LAK activity against Daudi cells was 66.2 +/- 13.1% and 48.7 +/- 12.7% against self glioma cells, 54.4 +/-10.1% against K562 cells, 43.1 +/- 7.9% against Raji cells, and 33.5 +/- 16.2% against allogeneic glioma cells. The phenotype of these LAK cells was Leu 1 (++), 2a (+/-), 3a (++), 7 (+), and 11 (++). The phenotype of precursor LAK cells, on the other hand, was Leu 1 (-), 2a (-), 3a (+), 7 (-), and 11 (++). Other activated killer cells, including LAK cells, phytohemagglutinin-activated killer cells, autoactivated killer cells, and their precursor LAK cells, were studied serologically in order to identify their phenotypic characteristics. From these data, the LAK cell populations were considered to be polyclonal. Using these LAK cells plus IL-2, local adoptive immunotherapy was undertaken in 23 patients with recurrent malignant glioma. We injected, that is, autologous LAK cells plus IL-2 directly into the cavities of the brain tumors; 1.2 to 324 x 10(8) LAK cells per ml and 0.8 to 5.4 x 10(3) units of IL-2 were directly injected into the brain tumor by using an Ommaya reservoir. Definite tumor regression, improvement of some clinical symptoms, and continuous remission over 6 mo or more were observed in six, nine, and three patients, respectively. There were no marked side effects, except for slight fever and chill, in eight and three patients, respectively. These results suggested the possibility of induction of a sufficient number of LAK cells from the lymphocytes of the patients with recurrent malignant glioma, indicating that local adoptive immunotherapy by direct injections of LAK cells and IL-2 into the brain tumor will prove to be an effective means of immunotherapy. Additional follow-up of the patients will be required before its therapeutic value can be established.

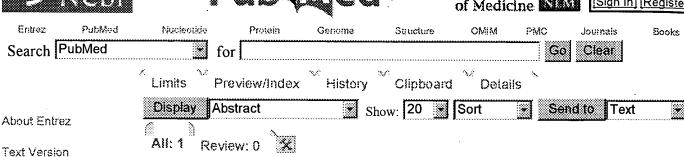
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Related Articles, Links

Long-term follow-up of patients with recurrent malignant gliomas treated with adjuvant adoptive immunotherapy.

Lillehei KO, Mitchell DH, Johnson SD, McCleary EL, Kruse CA.

Denver Brain Tumor Research Group, University of Colorado Health Sciences Center, St. Joseph Hospital, Denver.

Between August 1986 and October 1987, the Denver Brain Tumor Research Group conducted a clinical trial using autologous human recombinant interleukin-2 (rIL-2)-activated lymphocytes to treat 20 patients with recurrent high-grade gliomas. The trial involved surgical resection and/or decompression followed by intracavitary implantation of lymphokineactivated killer (LAK) cells and autologous stimulated lymphocytes (ASL) along with rIL-2 in a plasma clot. One month later, stimulated lymphocytes and rIL-2 were infused through a Rickham reservoir attached to a catheter directed into the tumor bed. The LAK cells were rIL-2-activated peripheral blood lymphocytes cultured for 4 days; the ASL were lectin- and rIL-2activated peripheral blood lymphocytes cultured for 10 days. Of the 20 patients treated, 11 were evaluated as a group (mean age, 44 years, range, 15-61 years; mean Karnofsky rating, 69, range, 50-100; mean Decadron dose at entry, 14 mg/d, range, 0-32). The average number of lymphocytes implanted was 7.6 x 10(9) (range, 1.9-27.5 x 10(9), together with 1 to 4 x 10(6) U of rIL-2. To date, 10 of the 11 patients died, all from recurrent tumor growth. The median overall survival time was 63 weeks (range, 36-201; mean, 86). The median survival time after immunotherapy was 18 weeks (range, 11-151; mean, 39). No significant difference in survival after immunotherapy was found between those patients who had received previous chemotherapy and those who had not. The use of steroids or prior chemotherapy did not influence the in vitro generation of ASL or LAK cells.(ABSTRACT TRUNCATED AT 250 WORDS)

Publication Types:

• Clinical Trial

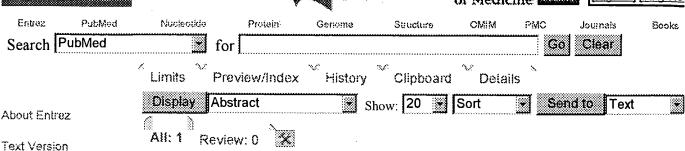
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Therapy of recurrent high grade gliomas with surgery, and autologous mitogen activated IL-2 stimulated killer (MAK) lymphocytes: I. Enhancement of MAK lytic activity and cytokine production by PHA and clinical use of PHA.

Jeffes EW 3rd, Beamer YB, Jacques S, Silberman RS, Vayuvegula B, Gupta S, Coss JS, Yamamoto RS, Granger GA.

Healthcare Medical Center of Tustin, Ca.

Nineteen patients with recurrent high grade gliomas were treated in a phase I/II trial with aggressive debulking of the tumor, mitogen activated IL-2 stimulated peripheral blood lymphocytes (MAK cells), and rIL-2. Phytohemagglutin (PHA) was introduced into the tumor site in 16 patients prior to implanting MAK cells and IL-2 in an attempt to trigger more effective lysis of the tumor in vivo. In vitro both TNF bioactivity and cytolytic activity of long term cultured MAK (LMAK) cells were dramatically enhanced by adding PHA to the cultures of these activated PBL. Three of eleven patients (27%) had a decrease in size of the enhancing lesion on CT and/or MRI. Seven (37%) patients clinically improved. Median survival after therapy was 30 weeks. PHA was shown to be safe in vivo and more effective than IL-2 triggering enhanced effector function in vitro.

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- Clinical Trial, Phase I
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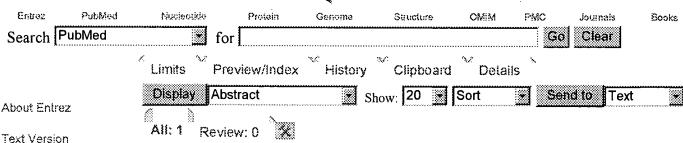
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Effect of local administration of lymphokine-activated killer cells and interleukin-2 on malignant brain tumor patients.

Ibayashi Y, Yamaki T, Kawahara T, Daibo M, Kubota T, Uede T, Tanabe S, Hashi K.

Department of Neurosurgery, Sapporo Medical College.

Nine patients with malignant brain tumors were treated with intratumoral infusion of lymphokine-activated killer (LAK) cells and interleukin-2 (IL-2). LAK cells were generated from macrophage-depleted peripheral blood lymphocytes by culturing with IL-2 for 4 days. The resulting LAK cells showed strong cytotoxic activity against tumor target cells. Three patients received sufficient LAK cells (> or $= 5.76 \times 10(8)$) to show partial tumor response by computed tomography and clinical signs. No severe neurological side effects occurred in any patient. Intratumoral administration of LAK cells and IL-2 can be effective in patients with malignant brain tumors.

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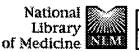
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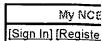
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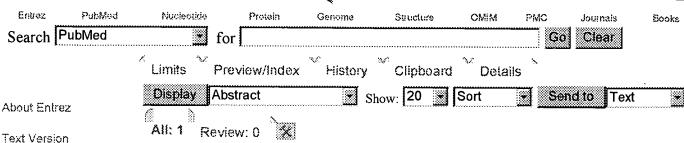
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1: Neurosurgery. 1994 Jun;34(6):1078-80; discussion 1080-1. Related Articles, Links

Successful adoptive immunotherapy with lymphokine-activated killer cells in the treatment of medulloblastoma disseminated via cerebrospinal fluid: case report.

Silvani A, Salmaggi A, Parmiani G, Boiardi A.

Istituto Nazionale Neurologico C. Besta, Milan, Italy.

We report the case of a girl who developed cerebellar medulloblastoma at the age of 12 years and in whom, 4 years after surgical removal and radiotherapy, neoplastic dissemination via the cerebrospinal fluid took place. After only partially effective systemic and intrathecal chemotherapy, an intrathecal administration of lymphokine-activated killer cells and recombinant interleukin-2 allowed complete clinical recovery persisting after a follow-up of 30 months.

Publication Types:

Case Reports

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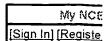
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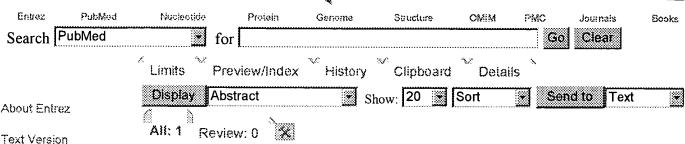
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1: Cancer Immunol Immunother. 1994 Sep;39(3):193-7.

Related Articles, Links

Loco-regional immunotherapy with recombinant interleukin-2 and adherent lymphokine-activated killer cells (A-LAK) in recurrent glioblastoma patients.

Boiardi A, Silvani A, Ruffini PA, Rivoltini L, Parmiani G, Broggi G, Salmaggi A.

Istituto Nazionale Neurologico C. Besta, Milan, Italy.

Nine patients with recurrent glioblastoma were given autologous adherent lymphokine-activated killer (A-LAK) cells and interleukin-2 (IL-2) administered directly into the tumor cavity through an Ommaya tube placed during surgery/biopsy. The immunotherapy was well tolerated and the response rate was 33% (one complete response, two partial responses, four with stable disease and two with progressive disease). However, survival 18 months from initial diagnosis did not differ from that reported in the literature for patients treated conventionally. Serial determinations of IL-2 in the tumor cavity during the course of treatment revealed that IL-2 concentrations were sufficient to maintain lymphocyte activation. Since steroid medication was discontinued during treatment and A-LAK cells have greater antitumor activity than standard LAK cells, other factors are discussed that might explain the limited results.

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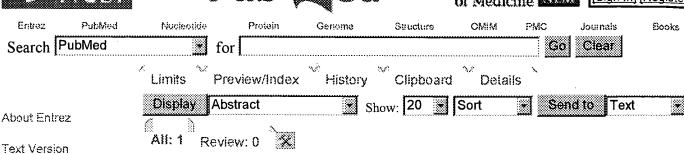
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1: Cancer. 1995 Sep 1;76(5):840-52.

Related Articles, Links

Improved long term survival after intracavitary interleukin-2 and lymphokine-activated killer cells for adults with recurrent malignant glioma.

Hayes RL, Koslow M, Hiesiger EM, Hymes KB, Hochster HS, Moore EJ, Pierz DM, Chen DK, Budzilovich GN, Ransohoff J.

Department of Neurosurgery, Kaplan Comprehensive Cancer Center, New York University Medical Center, New York 10016, USA.

BACKGROUND. The median survival for adults with glioblastoma multiforme (GBM) is 12 months, despite surgery, radiation, and chemotherapy. Regimens using interleukin-2 (IL-2) plus lymphokineactivated killer (LAK) cells have been beneficial against systemic cancers. albeit with significant toxicity. METHODS. Nineteen adults with recurrent malignant glioma (5 GBMs, and 4 anaplastic astrocytomas (AA)), Karnofsky performance status 60 or greater, were treated with intracavitary autologous LAK cells plus IL-2 after reoperation. Lymphokine-activated killer cells and IL-2 were given on day 1, and IL-2 alone was given 5 times during a 2-week cycle. This cycle was repeated at 2 weeks to constitute one 6-week course of therapy. Each two-cycle course of treatment was repeated at 3-month intervals for patients with stable disease or response to therapy. At the conclusion of immunotherapy, all patients were offered chemotherapy, generally carmustine or procarbazine, including responders. Corticosteroids were strictly limited during immunotherapy. Sequential reservoir aspirates were obtained for microbiologic and cytologic analyses. RESULTS. The maximal tolerated dose for a 12-dose course of therapy was 1.2 million international units (MIU) per dose. Dose-limiting, cumulative IL-2-related central nervous system (CNS) toxicity was observed at 2.4 MIU per dose. Three responses were confirmed by computed tomography scan during therapy: one complete response (CR) (1) AA), and two partial responses (PR) (2 GBM); as well as a significant increase in GBM survival. One additional CR (GBM) was observed at 17 months. The median survival for immunotherapy patients with GBM was 53 weeks after reoperation (N = 15) (mean, 87.9 + -21.4 weeks, standard error for the mean), with 8 of 15 surviving more than 1 year (53%). The median survival for 18 contemporary patients with GBM reoperated and treated with chemotherapy was 25.5 weeks (mean, 27.4 +/- 3.7 weeks), with 1/18 alive at 1 year (> 6%). Six of the 15 patients with GBM had additional surgery or biopsy, and chemotherapy after immunotherapy. The contribution of subsequent chemotherapy to survival cannot be discounted. CONCLUSIONS.

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Lymphokine-activated killer cells and IL-2 can be administered safely within the CNS resulting in improved long term survival in patients with recurrent glioblastoma. Increased survival was associated with significant biologic changes characterized by a regional eosinophilia, and extensive lymphocytic infiltration. A prospective randomized clinical trial is warranted.

PMID: 8625188 [PubMed - indexed for MEDLINE]

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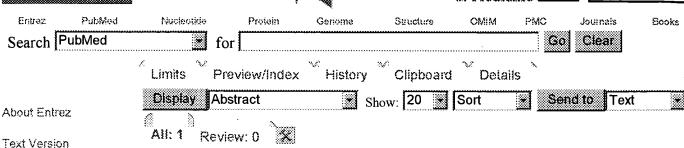
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Adoptive immunotherapy using lymphokine-activated killer (LAK) cells and interleukin-2 for recurrent malignant primary brain tumors.

Sankhla SK, Nadkarni JS, Bhagwati SN.

Department of Neurosurgery, Bombay Hospital, India.

Ten patients with recurrent malignant primary brain neoplasms were treated with adoptive immunotherapy using lymphokine-activated killer (LAK) cells and interleukin-2 (IL-2). Nine patients had supratentorial glioma and they received multiple intratumoral instillations of LAK cells through reservoircatheter system or burrhole. The other patients with disseminated subarachnoid metastases from posterior fossa medulloblastoma received immunotherapy via lumbar subarachnoid route. A partial and transient clinical response was observed in two patients. following the therapy, and a cystic transformation of the essentially solid tumour was noted on the CT scans of these two patients. No significant clinical or radiological response to the treatment was observed in the remaining 8 patients. The results of this preliminary study reveal limitations of the regional intratumoral adoptive immunotherapy using currently available techniques and provide sufficient evidence of its effectiveness to warrant further investigations.

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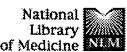
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8: Wang Y, Chen H, Wu M, Bao J, Cong W, Wang H.

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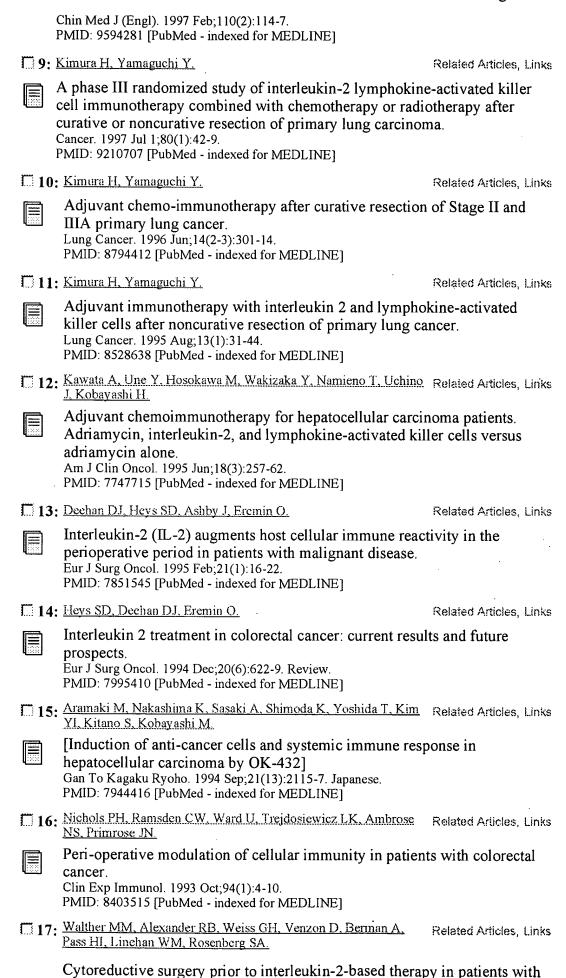
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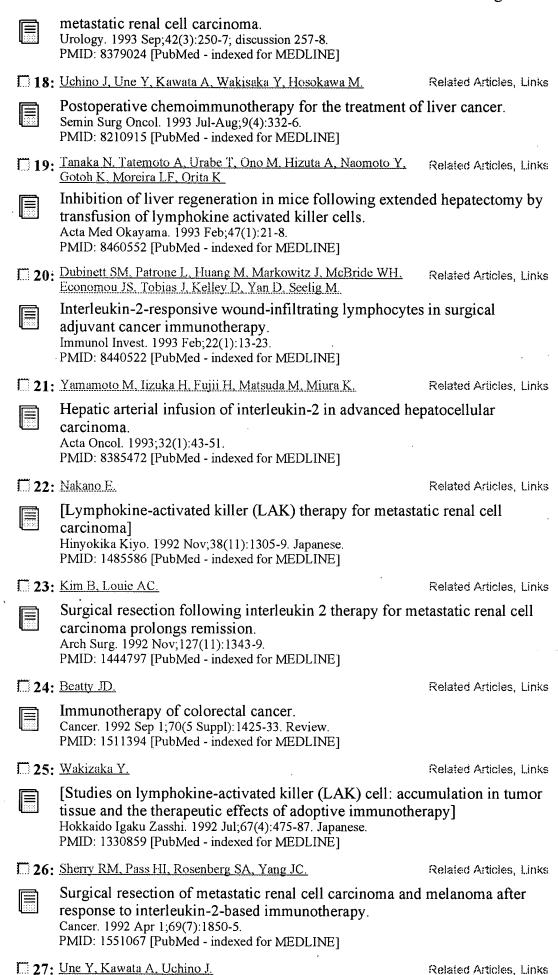
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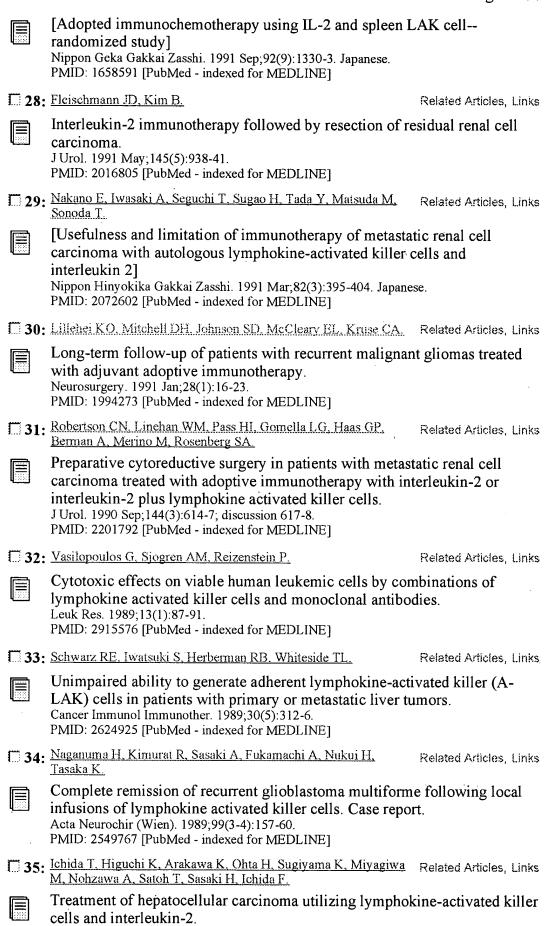
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Cancer Chemother Pharmacol. 1989;23 Suppl:S45-8. PMID: 2538266 [PubMed - indexed for MEDLINE]

36: Merchant RE, Grant AJ, Merchant LH, Young HF.

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Adoptive immunotherapy for recurrent glioblastoma multiforme using lymphokine activated killer cells and recombinant interleukin-2.

Cancer. 1988 Aug 15;62(4):665-71.

PMID: 2840186 [PubMed - indexed for MEDLINE]

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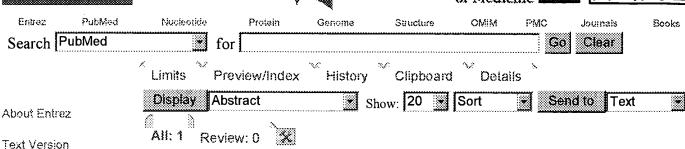
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Complete remission of recurrent glioblastoma multiforme following local infusions of lymphokine activated killer cells. Case report.

Naganuma H, Kimurat R, Sasaki A, Fukamachi A, Nukui H, Tasaka K.

Department of Neurosurgery, Yamanashi Medical College, Japan.

We report the case of a 26-year-old man in whom glioblastoma multiforme had recurred six months following a subtotal resection. Despite radiotherapy and a course of interferon beta and ACNU, the tumour increased in size (to 3 cm) and there was neurological deterioration. Treatment was then initiated with LAK cells, together with ACNU and interferon beta. After three courses of LAK cells, tumour size was markedly reduced, and at about six months the tumour had nearly disappeared on computed tomographic (CT) scans. At one year, and after nine courses of LAK cell therapy (total dose of 2.7 x 10(9) cells) infused via an Ommaya reservoir and supplemented by ACNU and interferon beta, the tumour has disappeared and the patient is considered to be in complete remission since 6 months. This marked response is thought to be due chiefly to LAK cell therapy. The relatively low dose administered was well-tolerated.

Publication Types:

Case Reports

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Neurol Res. 1986 Jun;8(2):81-7.

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PMID: 2875409 [PubMed - indexed for MEDLINE]

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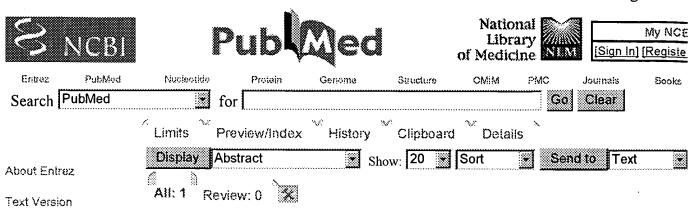
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Adoptive immunotherapy of intracerebral metastases in mice.

McCutcheon IE, Baranco RA, Katz DA, Saris SC.

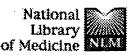
□ 1: J Neurosurg. 1990 Jan; 72(1): 102-9.

Surgical Neurology Branch, National Institute of Neurological Disorders and Stroke, Bethesda, Maryland.

Lymphokine-activated killer (LAK) cells are a heterogeneous population of immune effector cells that nonspecifically destroy neoplastic cells but not normal cells. Although parenteral treatment with interleukin-2 (IL-2) alone or a combination of IL-2 and LAK cells reduces tumor load and prolongs survival in mice with pulmonary, peritoneal, or hepatic metastases, the effect of these treatments on brain metastases has not been studied. To determine in an animal model if intracerebral metastases would be protected by the immunologically privileged status of the brain, intracardiac and intravenous injections of 10(5) KHT sarcoma cells were performed in C3H mice to create brain and lung metastases, respectively. The mice were treated with adoptive immunotherapy to determine if efficacy seen in an extracerebral site could be reproduced in the brain, and if histological examination of these brains would reveal a significant degree of lymphocyte infiltration and cytolytic activity. Animals were treated with either parenteral IL-2 (7500 U three times daily on Days 3 to 7 after tumor injection), or IL-2 plus LAK cells (7500 U IL-2 times daily on Days 3 to 7, and 10(8) LAK cells intravenously on Days 3 and 6 after tumor injection), or IL-2 excipient (three times daily on Days 3 to 7 after tumor injection). As compared to control animals, pulmonary metastases on Day 14 after tumor injection were reduced or eliminated in animals treated with either IL-2 or IL-2 plus LAK cells (p less than 0.01). In these same animals, there was no reduction in the number of intracerebral metastases and no evidence of lymphocytic infiltration or cytolytic activity in the brain. This is the first study that reveals an organ-specific resistance to the treatment of metastases with adoptive immunotherapy, and affirms the concern that due to inadequate trafficking of endogenous or exogenous-activated lymphocytes or due to inadequate activation of in situ brain lymphoid precursors, there is no rejection of tumors in the brain. This information suggests that brain metastases in patients with systemic malignancies will not respond to intravenous treatment with LAK cells and IL-2, and that alternative forms of treatment are needed. Furthermore, this modification of a previously existing model of murine brain metastasis provides a method for concurrently evaluating the effectiveness of treatments for intra- and extracranial cancers.









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     Svadovskii, A. I. [Reprint author]; Butakov, A. A.; Peresedov, V. V.; Gannushkina, I. V.
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     Res. Inst. Neurol.,
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      Cytokine immunotherapy for treatment of intracerebral tumors
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      Igorevich, Svadovskiy Aleksandr
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       The properties and peculiarities of action of yeast recombinant IL-2 in
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       combined treatment of brain gliomas.
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       Inst.Neurol.Moscow; Inst.Virol.Moscow; Inst.Neurosurq.Moscow
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      METHOD FOR TREATMENT OF INTRACEREBRAL TUMORS; CYTOKINE IMMUNOTHERAPY FOLLOWED BY NEUROSURGICAL INTERVENTION FOR TOTAL RESECTION OF INTRACEREBRAL TUMOR; CYTOKINE THERAPY COMPRISES INTRAVENOUS
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Warren, Bridget A., Los Altos, CA, UNITED STATES
Xu, Yuming, Mountain View, CA, UNITED STATES
Duggan, Brendan M., Sunnyvale, CA, UNITED STATES
Honchell, Cynthia D., San Carlos, CA, UNITED STATES
Kallick, Deborah A., Atherton, CA, UNITED STATES
Baughn, Mariah R., San Leandro, CA, UNITED STATES
Tang, Y. Tom, San Jose, CA, UNITED STATES
Yue, Henry, Sunnyvale, CA, UNITED STATES
Bandman, Olga, Mountain View, CA, UNITED STATES
IN
                 Yue, Henry, Sunnyvale, CA, UNITED STATES
Bandman, Olga, Mountain View, CA, UNITED STATES
Jones, Karen Anne, Essex, UNITED KINGDOM
Becha, Shanya D., Castro Valley, CA, UNITED STATES
Tran, Uyen K., San Jose, CA, UNITED STATES
Au-Young, Janice K., Brisbane, UNITED KINGDOM
Griffin, Jennifer A., Fremont, CA, UNITED STATES
Zebarjadian, Yeganeh, San Francisco, CA, UNITED STATES
Lee, Ernestie A., Castro Valley, CA, UNITED STATES
Elliott, Vicki S., San Jose, CA, UNITED STATES
Thangayelu, Kayitha, Mountain View, CA, UNITED STATES
                 Thangavelu, Kavitha, Mountain View, CA, UNITED STATES
Ramkumar, Jayalaxmi, Fremont, CA, UNITED STATES
Lu, Yan, Palo Alto, CA, UNITED STATES
Hafalia, April J.A., Santa Clara, CA, UNITED STATES
Chawla, Narinder K., San Leandro, CA, UNITED STATES
Ison, Craig H., San Jose, CA, UNITED STATES
Thornton Michael R Woodside CA UNITED STATES
                 Thornton, Michael B., Woodside, CA, UNITED STATES
Swarnakar, Anita, San Francisco, CA, UNITED STATES
Yang, Junming, San Jose, CA, UNITED STATES
Richardson, Thomas W., Redwood City, CA, UNITED STATES
Emerling, Brooke M., Palo Alto, CA, UNITED STATES
                 Emerling, Brooke M., Palo Alto, CA, UNITED STATES Yao, Monique G., Carmel, IN, UNITED STATES Cocks, Benjamin G., Sunnyvale, CA, UNITED STATES Sanjanwala, Bharati, Los Altos, CA, UNITED STATES Mason, Patricia M., Morgan Hill, CA, UNITED STATES Gandhi, Ameena R., San Francisco, CA, UNITED STATES Li, Joana X., San Francisco, CA, UNITED STATES Gururajan, Rajagopal, San Jose, CA, UNITED STATES Gietzen, Kimberly J., San Jose, CA, UNITED STATES Forsythe, Ian J., Redwood City, CA, UNITED STATES
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            2004:320582
            Methods for up-regualting antigen expression of Durda, Paul, Needham, MA, UNITED STATES
TI
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IN
            Kurnick, James T., Winchester, MA, UNITED STATES
            Dunn, Ian S., Sydney, AUSTRALIA
US 2004253235 A1 20041210
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            2004:314579 USPATFULL
            Receptors and membrane associated proteins
Lal, Preeti G, Santa Clara, CA, UNITED STATES
Honchell, Cynthia D, San Francisco, CA, UNITED STATES
Forsythe, Ian J, Edmonton, CA, UNITED STATES
Grand Mania D, Edmonton, CA, UNITED STATES
Charles Mania D, Edmonton, CA, UNITED STATES
ΤI
IN
            Chawla, Narinder K, Union City, CA, UNITED STATES
            Tang, Y Tom, San Jose, CA, UNITED STATES
            Borowsky, Mark L, Northampton, MA, UNITED STATES Barroso, Ines, Cambridge, UNITED KINGDOM
            Yue, Henry, Sunnyvale, CA, UNITED STATES
Warren, Bridget A, San Marcos, CA, UNITED STATES
Thangavelu, Kavitha, Sunnyvale, CA, UNITED STATES
Gietzen, Kimberly J, San Jose, CA, UNITED STATES
Azimzai, Yalda, Oakland, CA, UNITED STATES
Azimzai, Yalda, Oakland, CA, UNITED STATES
            Lee, Ernestine A, Kensington, CA, UNITED STATES
Baughn, Mariah R, Los Angeles, CA, UNITED STATES
Gorvad, Ann E, Bellingham, WA, UNITED STATES
Duggan, Brendan M, Sunnyvale, CA, UNITED STATES
            Duggan, Brendan M, Sunnyvale, CA, UNITED STATES
Tran, Bao, Santa Clara, CA, UNITED STATES
Li, Joana X, Millbrae, CA, UNITED STATES
Richardson, Thomas W, Redwood City, CA, UNITED STATES
Elliott, Vicki S, San Jose, CA, UNITED STATES
Zebarjadian, Yeganeh, San Francisco, CA, UNITED STATES
Tran, Uyen K, San Jose, CA, UNITED STATES
Yao, Monique G, Mountain View, CA, UNITED STATES
Peterson, David P, San Jose, CA, UNITED STATES
            Peterson, David P, San Jose, CA, UNITED STATES
Luo, Wen, San Diego, CA, UNITED STATES
            Patricia, Lehr-Mason, Morgan Hill, CA, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
               2004:301257
TI
               Combination immunogene therapy
              Chang, Lung-Ji, Gainesville, FL, US 2004237129 A1 20041125 US 2004-785577 A1 20040223
IN
                                                                                      UNITED STATES
PΙ
ΑI
                                                                   20040223 (10)
               Continuation of Ser. No. US 2001-826025, filed on 4 Apr 2001, GRANTED, Pat. No. US 6730512 Continuation of Ser. No. US 1997-838702, filed on 9
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               Apr 1997, ABANDONED
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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TI
               Compositions and methods for the therapy and diagnosis of lung cancer
              Henderson, Robert A., Edmonds, WA, UNITED STATES Wang, Tongtong, Medina, WA, UNITED STATES
IN
              Bangur, Chaitanya S., Issaquah, WA, UNITED STATES
Corixa Corporation, Seattle, WA, UNITED STATES (U.S. corporation)
US 2004235072 A1 20041125
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               ABANDONED Continuation-in-part of Ser. No. US 2000-643597, filed on 21 Aug 2000, GRANTED, Pat. No. US 6426072 Continuation-in-part of Ser. No.
              Aug 2000, GRANTED, Pat. No. US 6426072 Continuation-in-part of Ser. No. US 2000-630940, filed on 2 Aug 2000, GRANTED, Pat. No. US 6737514 Continuation-in-part of Ser. No. US 2000-606421, filed on 28 Jun 2000, GRANTED, Pat. No. US 6531315 Continuation-in-part of Ser. No. US 2000-542615, filed on 4 Apr 2000, GRANTED, Pat. No. US 6518256 Continuation-in-part of Ser. No. US 2000-510376, filed on 22 Feb 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-480884, filed on 10 Jan 2000, GRANTED, Pat. No. US 6482597 Continuation-in-part of Ser. No. US 1999-476496 filed on 30 Dec 1999 GRANTED, Pat. No. US 6706262
              US 1999-476496, filed on 30 Dec 1999, GRANTED, Pat. No. US 6706262
Continuation-in-part of Ser. No. US 1999-466396, filed on 17 Dec 1999, GRANTED, Pat. No. US 6696247 Continuation-in-part of Ser. No. US
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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                       USPATFULL on STN
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        Compositions and methods for
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        effector molecules
       King, Ivan C., New Haven, CT, UNITED STATES Vion Pharmaceuticals, Inc. (U.S. corporation)
IN
PA
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        Hyperthermia agent for malignant ***tumor***
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        magnetic fine particles
        Ito, Akira, Nagoya-shi, JAPAN
IN
        Honda, Hiroyuki, Nagoya-shi, JAPAN
        Kobayashi, Takeshi, Nagoya-shi, JAPAN
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
        Nucleic acid compositions for stimulating immune responses
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       Krieg, Arthur M., Wellesley, MA, UNITED STATES
Coley Pharmaceutical Group, Inc., Wellesley, MA (U.S. corporation)
IN
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        Process for in vivo treatment of specific biological targets in bodily
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        Connelly, Patrick R., Rochester, NY, UNITED STATES
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Custer, Andrew W., Davis, CA, UNITED STATES
         Kim, Michael B., Boston, MA, UNITED STATES
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         Intratumoral delivery device
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         Thakur, Madhukar (Mathew) L., Cherry Hill, NJ, UNITED STATES
Thomas Jefferson University, Philadelphia, PA (U.S. corporation)
IN
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         Alpha-difluoromethylornithine (DFMO) suppresses polyamine levels in the
         human prostate
         Meyskens, Frank L., JR., Irvine, CA, UNITED STATES
Simoneau, Anne R., Long Beach, CA, UNITED STATES
Gerner, Eugene W., Tucson, AZ, UNITED STATES
IN
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AN
         Therapeutic polypeptides, nucleic acids encoding same, and methods of
TI
         Alsobrook, John, II, Madison, CT, UNITED STATES
Bento, Patricia, Wolcott, CT, UNITED STATES
Boldog, Ferenc, North Haven, CT, UNITED STATES
IN
         Burgess, Catherine, Wethersfield, CT, UNITED STATES Casman, Stacie, North Haven, CT, UNITED STATES
         Bokor, Julie Crabtree, Gainesville, FL, UNITED STATES
         Edinger, Shlomit R., New Haven, CT, UNITED STATES
         Ellerman, Karen, Branford, CT, UNITED STATES
Fernandes, Elma, Branford, CT, UNITED STATES
         Gerlach, Valerie, Branford, CT, UNITED STATES
Grosse, William, Branford, CT, UNITED STATES
Gunther, Erik, Branford, CT, UNITED STATES
Gusev, Vladimir, Madison, CT, UNITED STATES
Heyes, Melvyn, New Haven, CT, UNITED STATES
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Li, Li, Branford, CT, UNITED STATES
         MacDougall, John R., Hamden, CT, UNITED STATES
         Malyankar, Uriel M., Branford, CT, UNITED STATES Millet, Isabelle, Milford, CT, UNITED STATES
         Patturajan, Meera, Branford, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Rieger, Daniel, Branford, CT, UNITED STATES
Shenoy, Suresh, Branford, CT, UNITED STATES
Shimbota, Bichard, Guilford, CT, UNITED STATES
         Shimkets, Richard, Guilford, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Stone, David, Guilford, CT, UNITED STATES
Vernet, Cornel, North Branford, CT, UNITED STATES
                 Edward, Wallingford, CT, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
TI
         Nucleic acid compositions for stimulating immune responses
         Krieg, Arthur M., Wellesley, MA, UNITED STATES
Coley Pharmaceutical Group, Inc., Wellesley, MA (U.S. corporation)
IN
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
         2004:196424 USPATFULL
TI
         Lectin compositions and methods for modulating an immune response to an
         antigen
IN
         Segal, Andrew H., Boston, MA, UNITED STATES
         Young, Elihu, Sharon, MA, UNITED STATES
PA
         Genitrix, LLC (U.S. corporation)
         US 2004151728
US 2003-666834
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
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         Therapeutic treatment methods
TI
        Reading, Christopher L., San Diego, CA, UNITED STATES Ahlem, Clarence N., San Diego, CA, UNITED STATES Auci, Dominick L., San Diego, CA, UNITED STATES Dowding, Charles, San Diego, CA, UNITED STATES Dowding, Charles, San Diego, CA, UNITED STATES
IN
         Frincke, James M., San Diego, CA, UNITED STATES
         Li, Mei, San Diego, CA, UNITED STATES
         Page, Theodore M., Carlsbad, CA, UNITED STATES
        Stickney, Dwight R., Granite Bay, CA, UNITED STATES
Trauger, Richard J., Leucadia, CA, UNITED STATES
White, Steven K., San Diego, CA, UNITED STATES
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AΙ
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L10
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AN
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TI
         Lectin compositions and methods for modulating an immune response to an
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        Segal, Andrew H., Boston, MA, UNITED STATES Young, Elihu, Sharon, MA, UNITED STATES Genitrix, LLC (U.S. corporation)
IN
PA
         US 2004126793
PI
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PRAI
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Utility
APPLICATION
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         ICS: C07H021-04; C07K014-47; C07K014-415; C12N005-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 17 OF 211 USPATFULL on STN
         2004:164872 USPATFULL
AN
TI
         Lectin compositions and methods for modulating an immune response to an
         antigen
        Segal, Andrew H., Boston, MA, UNITED STATES Young, Elihu, Sharon, MA, UNITED STATES Genitrix, LLC (U.S. corporation)
IN
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         US 2004126357
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        Division of Ser. No. US 2003-645000, filed on 20 Aug 2003, PENDING
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         ICS: A61K039-00; A61K038-19
     INDEXING IS AVAILABLE FOR THIS PATENT.
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      ANSWER 18 OF 211
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AN
         2004:151467
         Detection of gd2 synthase mrna and uses thereof
TI
         Cheung, Irene Y., Purchase, NY, UNITED STATES
Cheung, Nai-King V, Purchase, UNITED KINGDOM
IN
         US 2004115688
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         US 2003-477435
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ΑI
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         WO 2002-US15037
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NCL
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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                              USPATFULL on STN
         2004:126898 USPATFULL
AN
         Novel proteins and nucleic acids encoding same
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
TI
IN
         Rastelli, Luca, Guilford, CT, UNITED STATES
         Spaderna, Steven Kurt, Berlin, CT, UNITED STATES Shimkets, Richard A., West Haven, CT, UNITED STATES
         Zerhusen, Bryan D., Branford, CT, UNITED STATES
         Spytek, Kimberly Ann, New Haven, CT, UNITED STATES Shenov. Suresh G., Branford, CT, UNITED STATES
         Shenoy, Suresh G., Branford, CT,
         Li, Li, Cheshire, CT, UNITED STATES
Gusev, Vladimir Y., Madison, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Lepley, Denise M., Branford, CT, UNITED STATES
         Burgess, Catherine E., Wethersfield, CT, UNITED STATES
         Gerlach, Valerie L., Branford, CT, UNITED STATES Ellerman, Karen, Branford, CT, UNITED STATES
         MacDougall, John R., Hamden, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
US 2004096877 A1 20040520
         US 2004096877
US 2003-624932
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ΑI·
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         Continuation of Ser. No. US 2001-918779, filed on 30 Jul 2001, ABANDONED
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          ICM: C12Q001-68
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
        2004:121057 USPATFULL
        Nucleic acid compositions for stimulating immune responses
TI
        Krieg, Arthur M., Wellesley, MA, UNITED STATES
Coley Pharmaceutical Group, Inc., Wellesley, MA, UNITED STATES, 02481
IN
PA
        (U.S. corporation) US 2004092472
PI
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AN
        Local production and/or delivery of anti-cancer agents by stromal cell
TI
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        Studeny, Matus, Bratislava, SLOVAKIA
Andreeff, Michael, Houston, TX, UNITED STATES
Marini, Frank C., Houston, TX, UNITED STATES
Board of Regents, The University of Texas System (non-U.S. corporation)
US 2004076622 A1 20040422
IN
PA
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 22 OF 211 USPATFULL on STN
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AN
TI
        Enhancing the sensitivity of
                                              ***tumor***
                                                                cells to therapies
        Sobol, Robert, Rancho Santa Fe, CA, UNITED STATES
IN
        Gjerset, Ruth, San Diego, CA, UNITED STATES
US 2004072775 A1 20040415
ΡI
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        US 2003-374665
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        Continuation of Ser. No. US 2001-769752, filed on 26 Jan 2001, ABANDONED
RLI
        Continuation of Ser. No. US 1999-305254, filed on 4 May 1999, ABANDONED Continuation of Ser. No. US 1994-335461, filed on 7 Nov 1994, PENDING
        Continuation-in-part of Ser. No. US 1994-248814, filed on 24 May 1994,
        ABANDONED Continuation-in-part of Ser. No. US 1994-236221, filed on 29
        Apr 1994, ABANDONED
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 23 OF 211 USPATFULL on STN
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        2004:88928 USPATFULL
ΑN
TI
        Nucleic acid compositions for stimulating immune responses
        Krieg, Arthur M., Wellesley, MA, UNITED STATES
Coley Pharmaceutical Group, Inc., Wellesley, MA (U.S. corporation)
US 2004067905 A1 20040408
IN
PA
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US 2004067905

US 2003-613749

A1

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PI

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AN
                                   Therapeutic polypeptides, nucleic acids encoding same, and methods of
TI
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Alsobrook, John P., II, Madison, CT, UNITED STATES
Alvarez, Enrique, Clinton, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Baron, Melanie, Branford, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Chapoval, Andrei, Branford, CT, UNITED STATES
Chapoval, Andrei, Branford, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
Eisen, Andrew, Rockville, MD, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Ettenberg, Seth, New Haven, CT, UNITED STATES
Gangolli, Esha A., Madison, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Hackett, Craig, Branford, CT, UNITED STATES
IN
                                  Hackett, Craig, Branford, CT, UNITED STATES
Ji, Weizhen, Branford, CT, UNITED STATES
Kekuda, Ramesh, Norwalk, CT, UNITED STATES
                                Ji, Weizhen, Branford, CT, UNITED STATES
Kekuda, Ramesh, Norwalk, CT, UNITED STATES
Khramtsov, Nikolai V., Branford, CT, UNITED STATES
Lepley, Denise M., Farmington, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Mazur, Ann, Bloomfield, CT, UNITED STATES
McQueeney, Kelly, Ansonia, CT, UNITED STATES
McQueeney, Kelly, Ansonia, CT, UNITED STATES
McZes, Peter S., Old Lyme, CT, UNITED STATES
Miller, Charles E., Guilford, CT, UNITED STATES
Miller, Charles E., Guilford, CT, UNITED STATES
Miller, Isabelle, Milford, CT, UNITED STATES
Miller, Isabelle, Milford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Pena, Carol E. A., New Haven, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Rieger, Daniel K., Branford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Spithson, Glennda, Guilford, CT, UNITED STATES
Spithson, Glennda, Guilford, CT, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Thomlow, Nancy, Madison, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Sphong, Mei, Branford, CT, UNITED STATES
US 2004067882

Al 2004067882
                                    Zhong, Mei, Branford, CT, UNITED STATES
US 2004067882 A1 20040408
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Continuation-in-part of Ser. No. US 2001-997425, filed on 29 Nov 2001,
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CAS
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AN
         Intratumoral delivery of dendritic cells
ΤI
         Yu, John, Los Angeles, CA, UNITED STATES
IN
         Black, Keith, Los Angeles, CA, UNITED STATES
         Ehtesham, Moneeb, Los Angeles, CA, UNITED STATES CEDARS-SINAI MEDICAL CENTER (U.S. corporation)
PA
ΡI
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TI
         Nucleic acid compositions for stimulating immune responses
        Krieg, Arthur M., Wellesley, MA, UNITED STATES
Coley Pharmaceutical Group, Inc., Wellesley, MA (U.S. corporation)
US 2004053880 A1 20040318
IN
PA
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         ICS: A61K039-12; A61K039-02; A61K039-002; A61K038-19
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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         Proteins and nucleic acids encoding same
         Kekuda, Ramesh, Danbury, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
IN
         Liu, Xiaohong, Branford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
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Burgess, Catherine E., Wethersfield, CT, UNITED STATES
                 Vernet, Corine A.M., Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
                 Gorman, Linda, Branford, CT, UNITED STATES
                Gorman, Linda, Branford, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
Sciore, Paul, North Haven, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Rothenberg, Mark E., Clinton, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
                 Padigaru, Muralidhara, Branford, CT, UNITED STATES
                 Taupier, Raymond J., JR., East Haven, CT, UNITED STATES Miller, Charles E., Guilford, CT, UNITED STATES Eisen, Andrew, Rockville, MD, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
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AN
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                 Novel proteins and nucleic acids encoding same
                 Padigaru, Muralidhara, Branford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
IN
                Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Pena, Carol E. A., New Haven, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
Gusev, Vladimir Y., Madison, CT, UNITED STATES
Ji, Weizhen, Branford, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Miller Charles F. Guilford, CT, UNITED STATES
                Gorman, Linda, Branford, CT, UNITED STATES
Miller, Charles E., Guilford, CT, UNITED STATES
Kekuda, Ramesh, Norwalk, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Gangolli, Esha A., Madison, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Guo, Xiaojia Sasha, Branford, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Fernandes, Elma R., Branford, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Malvankar Uriel M. Branford, CT, UNITED STATES
                 Malyankar, Uriel M., Branford, CT, UNITED STATES
                Gerlach, Valerie, Branford, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Liu, Yi, San Diego, CA, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
Catterton, Elina, Madison, CT, UNITED STATES
Leite, Mario W., Milford, CT, UNITED STATES
Zhong, Haihong, Guilford, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Lepley, Denise M., Branford, CT, UNITED STATES
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Burgess, Catherine E.,
                                  Wethersfield, CT, UNITED STATES
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Vernet, Corine A.M., North Branford, CT, UNITED STATES
Fernandes, Elma R., Branford, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Shimkets, Richard A., West Haven, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Majumder, Kumud, Stamford, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
IN
             Tchernev, Velizar T., Branford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Burgess, Catherine E., Wetherstield, CT, UNITED STATES
             Gangolli, Esha A., Branford, CT, UNITED STATES
Smithson, Glennda, Branford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
             Taupier, Raymond J., JR., East Haven, CT, UNITED STATES Grosse, William M., Branford, CT, UNITED STATES
             Szekeres, Edward S., JR., Wallingford, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Zhong, Mei, Branford, CT, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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             Alsobrook, John, II, Madison, CT, UNITED STATES
Anderson, David, Plantsville, CT, UNITED STATES
Boldog, Ferenc, North Haven, CT, UNITED STATES
Burgess, Catherine, Wethersfield, CT, UNITED STATES
Casman, Stacie, North Haven, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
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Guo, Xiaojia, Branford, CT, UNITED STATES
Gusev, Vladimir, Madison, CT, UNITED STATES
Ji, Weizhen, Branford, CT, UNITED STATES
LaRochelle, William, Madison, CT, UNITED STATES
           Lepley, Denise, Branford, CT, UNITED STATES
           Li, Li, Branford, CT, UNITED STATES
           Liu, Xiaohong, Branford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Millet, Isabelle, Milford, CT, UNITED STATES
           Padigaru, Muralidhara, Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
           Rieger, Daniel, Branford, CT, UNITED STATES
           Rothenberg, Mark E., Clinton, CT, UNITED STATES Shimkets, Richard, Guilford, CT, UNITED STATES
           Stone, David J., Guilford, CT, UNITED STATES
Taupier, Raymond, JR., East Haven, CT, UNITED STATES
Vernet, Corine, North Branford, CT, UNITED STATES
Zerhusen, Bryan, Branford, CT, UNITED STATES
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           Combined immunotherapy of fusion cells and interleukin-12 for treatment
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IN
           Ohno, Tsuneya, Boston, MA, UNITED STATES
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           Spytek, Kimberly A., New Haven, CT, UNITED STATES Li, Li, Branford, CT, UNITED STATES Wolenc, Adam R., New Haven, CT, UNITED STATES Vernet, Corine, North Branford, CT, UNITED STATES Eisen, Andrew J., Rockville, MD, UNITED STATES
IN
           Liu, Xiaohong, Lexington, MA, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Tchernev, Velizar, Branford, CT, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
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Kekuda, Ramesh, Norwalk, CT, UNITED STATES
               Kekuda, Ramesh, Norwalk, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Gusev, Vladimir Y., Madison, CT, UNITED STATES
Gangolli, Esha A., Madison, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Gunther, Erik, Branford, CT, UNITED STATES
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                Smithson, Glennda, Guilford, CT, UNITED STATES
                Millet, Isabelle, Milford, CT, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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Mezes, Peter D., Old Lyme, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Herrmann, John L., Guilford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Zhong, Haihong, Guilford, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
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               Shimkets, Richard A., Guilford, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Eisen, Andrew J., Rockville, MD, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Berghs, Constance, New Haven, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
DiPippo, Vincent A., East Haven, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Lepley, Denise M., Branford, CT, UNITED STATES
Rieger, Daniel K., Branford, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STA
                Burgess, Catherine E., Wethersfield, CT, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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2004:18871 USPATFULL
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           Anderson, David W., Plantsville, CT, UNITED STATES Boldog, Ferenc L., North Haven, CT, UNITED STATES
IN
          Casman, Stacie J., North Haven, CT, UNITED STATES Edinger, Shlomit R., New Haven, CT, UNITED STATES Ellerman, Karen, Branford, CT, UNITED STATES Fernandes, Elma R., Branford, CT, UNITED STATES Gunther, Erik, Branford, CT, UNITED STATES Leach, Martin D., Madison, CT, UNITED STATES MacDougall, John R., Hamden, CT, UNITED STATES Padigary, Muralidhara, Branford, CT, UNITED STATES
           Padigaru, Muralidhara, Branford, CT, UNITED STATES
          Shimkets, Richard A., Guilford, CT, UNITED STATES Smithson, Glennda, Guilford, CT, UNITED STATES Spytek, Kimberly A., Ellington, CT, UNITED STATES US 200401473 Al 20040122
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           US 2003-384974 A1 20030310 (10)
Continuation of Ser. No. US 2002-81407, filed on 21 Feb 2002, ABANDONE
Continuation-in-part of Ser. No. US 2000-569269, filed on 11 May 2000,
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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           Zerhusen, Bryan D., Branford, CT, UNITED STATES
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           Padigaru, Muralidhara, Branford, CT, UNITED STATES
Spytek, Kimberly, New Haven, CT, UNITED STATES
           Spaderna, Steven, Berlin, CT, UNITED STATES
           Gangolli, Esha A., Branford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
           Majumder, Kumud, Stamford, CT, UNITED STATES
Shimkets, Richard, West Haven, CT, UNITED STATES
Mishra, Vishnu, Branford, CT, UNITED STATES
Vernet, Corine, North Branford, CT, UNITED STATES
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Grosse, William M., Branford, CT, UNITED STATES Alsobrook, John P., II, Madison, CT, UNITED STATES Liu, Xiaohong, Branford, CT, UNITED STATES
                    Gerlach, Valerie L., Branford, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Smithson, Glennda, Branford, CT, UNITED STATES
Peyman, John, New Haven, CT, UNITED STATES
Stone, David, Guilford, CT, UNITED STATES
MacDougall, John, Hamden, CT, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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Alsobrook, John P., II, Madison, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Ballinger, Robert A., Newington, CT, UNITED STATES
Boldog, Ference L., North Haven, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Casman, Karen, Branford, CT, UNITED STATES
Gangolli, Esha A., Madison, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Gilbert, Jennifer A., Madison, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Gusev, Vladimir Y., Madison, CT, UNITED STATES
Kekuda, Ramesh, Norwalk, CT, UNITED STATES
Liu, Kiaohong, Branford, CT, UNITED STATES
Liu, Xiaohong, Branford, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Miller, Charles E., Guilford, CT, UNITED STATES
Miller, Isabelle, Milford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
                     Proteins and nucleic acids encoding same
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IN
                    Millet, Isabelle, Milford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
A. Pena, Carol E., New Haven, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
                     Tchernev, Velizar T., Branford, CT, UNITED STATES Vernet, Corine A.M., Branford, CT, UNITED STATES Zerhusen, Bryan D., Branford, CT, UNITED STATES US 2004009907 A1 20040115
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 37 OF 211
                         USPATFULL on STN
        2004:7790
AN
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TI
       Antisense modulation of TGF-beta 2 expression
IN
       Monia, Brett P., Encinitas, CA, UNITED STATES
       Freier, Susan M., San Diego, CA, UNITED STATES Dobie, Kenneth W., Del Mar, CA, UNITED STATES
                                     (U.S. corporation)
PA
        Isis Pharmaceuticals Inc.
ΡI
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ΑI
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        INCLS:
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               435/006.000; 435/375.000; 536/023.500
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        ICM: C12Q001-68
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 38 OF 211
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        2004:7408
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AN
TI
       Compositions and methods for treatment and detection of multiple cancers
       Liau, Linda M., Los Angeles, CA, UNITED STATES
IN
        The Regents of the University of California (U.S. corporation)
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ICS: C07H021-04; C07K016-40; C12P021-02; C12N005-06; C12N009-02;
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
         ANSWER 39 OF 211
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AN
             Proteins, polynucleotides encoding them and methods of using the same Pena, Carol E. A., New Haven, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Nokuda Baroch Normally CT, UNITED STATES
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IN
             Kekuda, Ramesh, Norwalk, CT, UNITED STATES
             Spytek, Kimberly A., New Haven, CT, UNITED STATES
            Spytek, Kimberly A., New Haven, CT, UNITED STATES Vernet, Corine A.M., Branford, CT, UNITED STATES Malyankar, Uriel M., Branford, CT, UNITED STATES Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES Gusev, Vladimir Y., Madison, CT, UNITED STATES Casman, Stacie J., North Haven, CT, UNITED STATES Boldog, Ferenc L., North Haven, CT, UNITED STATES Furtak, Katarzyna, Ansonia, CT, UNITED STATES Tchernev, Velizar T., Branford, CT, UNITED STATES Patturajan, Meera, Branford, CT, UNITED STATES Gangolli, Esha A., Madison, CT, UNITED STATES Padigaru, Muralidhara, Branford, CT, UNITED STATES Liu, Xiaohong, Branford, CT, UNITED STATES
             Liu, Xiaohong, Branford, CT, UNITED STATES
             Baumgartner, Jason C., New Haven, CT, UNITED STATES
             Gerlach, Valerie, Branford, CT, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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             Therapeutic polypeptides, nucleic acids encoding same, and methods of
             Kekuda, Ramesh, Danbury, CT, UNITED STATES
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             Tchernev, Velizar T., Branford, CT,
                                                                                  UNITED STATES
             Liu, Xiaohong, Branford, CT, UNITED STATES
             Spytek, Kimberly A., New Haven, CT, UNITED STATES Patturajan, Meera, Branford, CT, UNITED STATES
             Burgess, Catherine E., Wethersfield, CT, UNITED STATES Vernet, Corine A.M., Branford, CT, UNITED STATES Li, Li, Branford, CT, UNITED STATES Gorman, Linda, Branford, CT, UNITED STATES
Malvankar, Uriel M. Branford, CT, UNITED STATES
             Malyankar, Uriel M., Branford, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
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Miller, Charles E., Guilford, CT, UNITED STATES
         Casman, Stacie J., North Haven, CT, UNITED STATES
         Pena, Carol E. A., New Haven, CT, UNITED STATES
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Gusev, Vladimir Y., Madison, CT, UNITED STATES
        Smithson, Glennda, Guilford, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Pochart, Pascale F-J, Madison, CT, UNITED STATES
Fernandes, Elma R., Branford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Pastelli Luca Guilford, CT, UNITED STATES
         Rastelli, Luca, Guilford, CT, UNITED STATES
         Spaderna, Steven K., Berlin, CT, UNITED STATES
         LaRochelle, William J., Madison,
                                                   CT. UNITED STATES
         Zhong, Mei, Branford, CT, UNITED STATES
         Khramtsov, Nikolai V., Branford, CT, UNITED STATES Voss, Edward Z., Wallingford, CT, UNITED STATES
         Herrmann, John L., Guilford, CT,
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ICS: G01N033-567; A61K038-17; C12P021-02; C12N005-06; C07K014-705;
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
        ANSWER 41 OF 211
                                    USPATFULL on STN
            2004:146869 USPATFULL
AN
           Protein stabilized pharmacologically active agents, methods for the preparation thereof and methods for the use thereof Desai, Neil P., Los Angeles, CA, United States Tao, Chunlin, Beverly Hills, CA, United States Yang, Andrew, Rosemead, CA, United States Louie, Leslie, Montebello, CA, United States Yao, Zhiwen, Culver City, CA, United States Soon-Shiong, Patrick, Los Angeles, CA, United States Magdassi, Shlomo, Jerusalem, ISPAFI.
TI
IN
           Magdassi, Shlomo, Jerusalem, ISRAEL
PA
           Américan BioScience, Inc., Santa Monica, CA, United States (U.S.
            corporation)
           US 6749868
US 1999-316642
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           US 1999-316642

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Continuation-in-part of Ser. No. US 1998-198082, filed on 23 Nov 1998, now abandoned Division of Ser. No. US 1996-720756, filed on 1 Oct 1996, now patented, Pat. No. US 5916596 Continuation-in-part of Ser. No. US 1995-412726, filed on 29 Mar 1995, now patented, Pat. No. US 5560933 Continuation-in-part of Ser. No. US 1993-23698, filed on 22 Feb 1993
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
        ANSWER 42 OF 211 USPATFULL on STN 2004:26966 USPATFULL
L10
AN
           Lipid soluble radioactive metal chelates for ***tumor*** thera Thakur, Madhukar (Mathew) L., Cherry Hill, NJ, United States Thomas Jefferson University, Philadelphia, PA, United States (U.S.
TI
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IN
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           US 6685913
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
        2003:456186 CAPLUS
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        Method for applying combined immunotherapy of malignant
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        Nikonov, S. D.; Chernykh, E. R.; Ostanin, A. A.; Khonina, N. A.; Shevela, E. Ya.; Stupak, V. V.; Tsentner, M. I.
IN
        Gosudarstvennoe Uchrezhdenie Nauchno-Issledovatel'skii Institut
PA
        Klinicheskoi Immunologii SO RAMN, Russia; Nauchno-Issledovatel'skii
Institut Travmatologii I Ortopedii; Avtonomnaya Nekommercheskaya Nauchnaya
Organizatsiya "Sibirskii Tsentr Lazernoi Meditsiny"
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L10
                ANSWER 44 OF 211
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                       2003:335331 USPATFULL
AN
                     Compositions and methods for the therapy and diagnosis of lung cancer Foy, Teresa M., Federal Way, WA, UNITED STATES McNabb, Andria, Renton, WA, UNITED STATES Watanabe, Yoshihiro, Mercer Island, WA, UNITED STATES Reed, Steven G., Bellevue, WA, UNITED STATES Wang, Tongtong, Medina, WA, UNITED STATES Corixa Corporation, Seattle, WA (U.S. corporation) US 2003236209 Al 20031225
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ΡI
AΙ
                      US 2002-313986
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                                                                                                   20021204 (10)
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                      2001, PENDING Continuation-in-part of Ser. No. US 2001-897778, filed on
                      28 Jun 2001, PENDING Continuation-in-part of Ser. No. US 2001-850716,
                     filed on 7 May 2001, ABANDONED Continuation-in-part of Ser. No. US 2000-735705, filed on 12 Dec 2000, PENDING Continuation-in-part of Ser. No. US 2000-685696, filed on 9 Oct 2000, PENDING Continuation-in-part of Ser. No. US 2000-662786, filed on 15 Sep 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-643597, filed on 21 Aug 2000, GRANTED, Pat. No. US 6426072 Continuation-in-part of Ser. No. US 2000-630940, filed on 2 Aug 2000, PENDING Continuation-in-part of Ser. No. US 2000-630940, filed on 2 Aug 2000, PENDING Continuation-in-part of Ser.
                      No. US 2000-606421, filed on 28 Jun 2000, GRANTED, Pat. No. US 6531315 Continuation-in-part of Ser. No. US 2000-542615, filed on 4 Apr 2000, GRANTED, Pat. No. US 6518256 Continuation-in-part of Ser. No. US 2000-510376, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser.
                  No. US 2000-480884, filed on 10 Jan 2000, GRANTED, Pat. No. US 6482597 Continuation-in-part of Ser. No. US 1999-476496, filed on 30 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-466396, filed on 17 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-285479, filed on 2 Apr 1999, PENDING Continuation-in-part of Ser. No. US 1998-221107, filed on 22 Dec 1998, PENDING Continuation-in-part of Ser. No. US 1998-221107, filed on 22 Dec 1998, PENDING Continuation-in-part of Ser. No. US 1998-123912, filed on 27 Jul 1998, GRANTED, Pat. No. US 6312695
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
               ANSWER 45 OF 211 USPATFULL on STN 2003:306017 USPATFULL
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Mezes, Peter D., Old Lyme, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Herrmann, John L., Guilford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Zhong, Haihong, Guilford, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
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                      Boldog, Ferenc L., North Haven, CT, UNITED STATES Shimkets, Richard A., Guilford, CT, UNITED STATES
                     Gorman, Linda, Branford, CT, UNITED STATES
Eisen, Andrew J., Rockville, MD, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Berghs, Constance, New Haven, CT, UNITED STATES
Spatek, Kimberly, A., New Haven, CT, UNITED STATES
                     Spytek, Kimberly A., New Haven, CT, UNITED STATES
DiPippo, Vincent A., East Haven, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
                     Peyman, John A., New Haven, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Lepley, Denise M., Branford, CT, UNITED STATES
Rieger, Daniel K., Branford, CT, UNITED STATES
Burgess Catherine E. Wethersfield CT UNITED STATES
                      Burgess, Catherine E., Wethersfield, CT, UNITED STATES
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Voss, Edward Z., Wallingford, CT, UNITED STATES Miller, Charles E., Guilford, CT, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
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         Immunostimulatory nucleic acids
         Krieg, Arthur M., Wellesley, MA, UNITED STATES
Schetter, Christian, Hilden, GERMANY, FEDERAL REPUBLIC OF
Vollmer, Jorg, Dusseldorf, GERMANY, FEDERAL REPUBLIC OF
University of Iowa Research Foundation, Iowa City, IA, 52242 (U.S.
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AN
TI
         Novel proteins and nucleic acids encoding same and antibodies directed
         against these proteins
        Herrmann, John L., Guilford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
US 2003204052 Al 20031030
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         US 2001-970944
US 2000-237862P
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PRAI
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APPLICATION
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                  530/350.000
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         ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 48 OF 211
                            USPATFULL on STN
         2003:258353
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AN
TI
         CpG-like nucleic acids and methods of use thereof
IN
         Schetter, Christian, Hilden, GERMANY, FEDERAL REPUBLIC OF
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           US 2003181406
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           Continuation of Ser. No. WO US148281, PENDING
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PRAI
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
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AN
           2003:245132
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TI
           Chimeric immunoreceptor useful in treating human cancers
           Jensen, Michael, Pasadena, CA, UNITED STATES
ΙN
           CITY OF HOPE, DUARTE, CA (U.S. corporation)
PA
           US 2003171546
US 2002-134645
US 2001-286981P
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
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           2003:244429 USPATFULL
AN
           Novel polynucleotides and polypeptides encoded thereby Mishra, Vishnu S., Gainsville, FL, UNITED STATES
TI
IN
          Spytek, Kimberly Ann, New Haven, CT, UNITED STATES
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Vernet, Corine A., L North Branford, CT, UNITED STATES
Colman, Steven D., Guilford, CT, UNITED STATES
Gorman, Linda, East Haven, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Malyankar, Uriel M., North Branford, CT, UNITED STATES
Shenov, Suresh Branford, CT, UNITED STATES
           Shenoy, Suresh, Branford, CT, UNITED STATES
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Padigaru, Muralidhara, Branford, CT, UNITED STATES
Gerlach, Valerie L., Branford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Millet, Isabelle, Milford, CT, UNITED STATES
Peyman, John, New Haven, CT, UNITED STATES
Stone, David, Guilford, CT, UNITED STATES
Gunther, Erik, Branford, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Li. Li. Branford, CT, UNITED STATES
           Li, Li, Branford, CT, UNITED STATES
           Rastelli, Luca, Guilford, CT, UNITED STATES
Zerhusen, Bryan, Branford, CT, UNITED STATES
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
TI
        Methods for detection and treatment of neural cancers
        Liau, Linda M., Los Angeles, CA, UNITED STATES
The Regents of the University of California. (U.S. corporation)
IN
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        US 2003-382945
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        Division of Ser. No. US 2001-795714, filed on 28 Feb 2001, GRANTED, Pat.
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        Utility
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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L10
        2003:237907 USPATFULL
AN
        Compositions and methods for the therapy and diagnosis of colon cancer King, Gordon E., Shoreline, WA, UNITED STATES
TI
IN
        Meagher, Madeleine Joy, Seattle, WA, UNITED STATES Xu, Jiangchun, Bellevue, WA, UNITED STATES
        Secrist, Heather, Seattle, WA, UNITED STATES
        Jiang, Yuqiu, Kent, WA, UNITED STATES
Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
PA
        US 2003166064
US 2002-99926
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        US 2002-99926 A1 20020314 (10)
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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                           USPATFULL on STN
        2003:220223 USPATFULL
AN
        Remedies for cancer
TI
                                     JAPAN
IN
        Yagita, Akikuni, Tokyo,
        US 2003153514
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        US 2002-258715
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        WO 2001-JP3621
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
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AN
           2003:213244
          Method for preparation of single chain antibodies
ΤI
          Cheung, Nai-Kong V., Purchase, NY, UNITED STATES
Guo, Hong-Fen, New York, NY, UNITED STATES
IN
          Sloan-Kettering Institute for Cancer Research (U.S. corporation)
PA
PΙ
          US 2003147881
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          US 2002-273762
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
       ANSWER 55 OF 211
                                USPATFULL on STN
           2003:213230 USPATFULL
AN
          Genetically modified cells expressing a TGFbeta inhibitor, the cells
TI
          being lung cancer cells
IN
          Fakhrai, Habib, La Jolla, CA, UNITED STATES
                                               20030807
PΙ
          US 2003147867
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          US 2002-244718
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                                              20020916 (10).
          Continuation of Ser. No. WO 2001-US10339, filed on 30 Mar 2001, PENDING
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          US 2000-193497P
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
       ANSWER 56 OF 211
                                  USPATFULL on STN
AN
           2003:200455 USPATFULL
           Compositions and methods for the therapy and diagnosis of lung cancer
TI
          Mericle, Barbara, Edmonds, WA, UNITED STATES
Fanger, Gary R., Mill Creek, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Carter, Darrick, Seattle, WA, UNITED STATES
IN
          Watanabe, Yoshihiro, Mercer Island, WA, UNITED STATES
Henderson, Robert A., Edmonds, WA, UNITED STATES
Kalos, Michael D., Seattle, WA, UNITED STATES
Spies, A. Gregory, Shoreline, WA, UNITED STATES
Foy, Teresa M., Federal Way, WA, UNITED STATES
Fan, Liqun, Bellevue, WA, UNITED STATES
Wang Tongtong Medina WA, UNITED STATES
          Wang, Tongtong, Medina, WA, UNITED STATES
Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
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           US 2003138438
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          US 2002-117982
                                               20020405 (10)
          Continuation-in-part of Ser. No. US 2001-7700, filed on 30 Nov 2001, PENDING Continuation-in-part of Ser. No. US 2001-897778, filed on 28 Jun 2001, PENDING Continuation-in-part of Ser. No. US 2001-850716, filed on
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          7 May 2001, PENDING Continuation-in-part of Ser. No. US 2000-735705, filed on 12 Dec 2000, PENDING Continuation-in-part of Ser. No. US 2000-685696, filed on 9 Oct 2000, PENDING Continuation-in-part of Ser. No. US 2000-662786, filed on 15 Sep 2000, ABANDONED Continuation-in-part
           of Ser. No. US 2000-643597, filed on 21 Aug 2000, GRANTED, Pat. No. US
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2000, PENDING Continuation-in-part of Ser. No. US 2000-606421, filed on
           28 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-542615,
           filed on 4 Apr 2000, PENDING Continuation-in-part of Ser. No. US
           2000-510376, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser. No. US 2000-480884, filed on 10 Jan 2000, PENDING Continuation-in-part
           of Ser. No. US 1999-476496, filed on 30 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-466396, filed on 17 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-285479, filed on 2 Apr 1999, PENDING Continuation-in-part of Ser. No. US 1998-221107, filed on 22 Dec 1998, PENDING Continuation-in-part of Ser. No. US 1998-123912, filed on 27 Jul 1998, GRANTED, Pat. No. US 6312695 Continuation-in-part of Ser. No. US 1998-123912, filed on 28 July 1998, GRANTED, Pat. No. US 6312695 Continuation-in-part
           of Ser. No. US 1998-40802, filed on 18 Mar 1998, ABANDONED
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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L10
        ANSWER 57 OF 211
           2003:187346 USPATFULL
AN
TI
           IL-13 receptor specific chimeric proteins & uses thereof
           Puri, Raj K., North Potomac, MD, UNITED STATES
Debinski, Waldemar, Hershey, PA, UNITED STATES
Pastan, Ira, Potomac, MD, UNITED STATES
IN
           Obiri, Nicholas, N. Potomac, MD, UNITED STATES
The Government of the USA as represented by the Secretary of the Dept.
PA
           of Health & Human Services (U.S. corporation)
US 2003129132 A1 20030710
ΡI
ΑI
           US 2002-318608
                                        A1
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           Continuation of Ser. No. US 1998-913370, filed on 17 Feb 1998, GRANTED, Pat. No. US 6518061 A 371 of International Ser. No. WO 1996-US3486,
RLI
           filed on 15 Mar 1996, PENDING A 371 of International Ser. No. US
           1995-404685, filed on 15 Mar 1995, GRANTED, Pat. No. US 5614191
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           ICM: A61K051-00
           ICS: A61K039-395; A61K038-20; A61K009-127
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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        ANSWER 58 OF 211
           2003:127601 USPATFULL
AN
TI
           Novel proteins and nucleic acids encoding same
           Vermet, Corine, Gainesville, FL, UNITED ŠTATES
IN
           Fernandes, Elma, Branford, CT, UNITED STATES
          Shimkets, Richard, West Haven, CT, UNITED STATES
Shimkets, Richard, West Haven, CT, UNITED STATES
Herrmann, John, Guilford, CT, UNITED STATES
Majumder, Kumud, Stamford, CT, UNITED STATES
MacDougall, John, Hamden, CT, UNITED STATES
Mishra, Vishnu, Gainesville, FL, UNITED STATES
Mezes, Peter S., Old Lyme, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
US 2003087816
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PI
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IC
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           ICM: A61K038-17
           ICS: C07H021-04; C12P021-02; C12N005-06; C07K014-705
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L10
       ANSWER 59 OF 211
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AN
          2003:126708
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          Therapeutic agents comprising pro-apoptotic proteins
TI
          Rosenblum, Michael G., Houston, TX, UNITED STATES
Liu, Yuying, Houston, TX, UNITED STATES
IN
          US 2003086919
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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L10
       ANSWER 60 OF 211
          2003:120760 USPATFULL
AN
          Novel proteins and nucleic acids encoding same
TI
          Vernet, Corine A.M., North Branford, CT, UNITED STATES Fernandes, Elma R., Branford, CT, UNITED STATES Gerlach, Valerie, Branford, CT, UNITED STATES Shimkets, Richard A., West Haven, CT, UNITED STATES Malyankar, Uriel M., Branford, CT, UNITED STATES
IN
                                                                      UNITED STATES
          Boldog, Ferenc L., North Haven, CT, UNITED STATES
          Zerhusen, Bryan D., Branford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Majumder, Kumud, Stamford, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
          Burgess, Catherine E., Wethersfield, CT,
                                                                     UNITED STATES
          Gangolli, Esha A., Madison, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
          Rastelli, Luca, Guilford, CT, UNITED STATES MacDougall, John R., Hamden, CT, UNITED STATES
          Taupier, Raymond J., JR., East Haven, CT, UNITED STATES Grosse, William M., Branford, CT, UNITED STATES
          Szekeres, Edward S., JR., Branford, CT, UNITED STATES Alsobrook, John P., II, Madison, CT, UNITED STATES US 2003083244 Al 20030501
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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\mathbf{A}\mathbf{N}
TI
            Compositions and methods for the therapy and diagnosis of pancreatic
            cancer
            Benson, Darin R., Seattle, WA, UNITED STATES
IN
            Kalos, Michael D., Seattle, WA, UNITED STATES
            Lodes, Michael J., Seattle, WA, UNITED STATES
Persing, David H., Redmond, WA, UNITED STATES
Hepler, William T., Seattle, WA, UNITED STATES
Jiang, Yuqiu, Kent, WA, UNITED STATES
Jiang, Yuqiu, Kent, WA, UNITED STATES
            Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)
PA
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            NCLS:
                         435/069.100; 435/320.100; 435/325.000; 435/183.000; 536/023.200
IC
             [7]
             ICM: G01N033-574
             ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
        ANSWER 62 OF 211
2003:93586 USI
L10
                                         USPATFULL on STN
                                USPATFULL
AN
            Compositions and methods for the therapy and diagnosis of lung cancer Wang, Tongtong, Medina, WA, UNITED STATES
Wang, Aijun, Issaquah, WA, UNITED STATES
TI
IN
            Skeľky, Ťasir A. W., Bellevue, WA, UNITED STATES
            Skeiky, Yasir A. W., Bellevue, WA, UNITED STATES
Li, Samuel X., Redmond, WA, UNITED STATES
Kalos, Michael D., Seattle, WA, UNITED STATES
Henderson, Robert A., Edmonds, WA, UNITED STATES
McNeill, Patricia D., Federal Way, WA, UNITED STATES
Fanger, Neil, Seattle, WA, UNITED STATES
Retter, Marc W., Carnation, WA, UNITED STATES
Durham, Margarita, Seattle, WA, UNITED STATES
Fanger, Gary R., Mill Creek, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Carter, Darrick, Seattle, WA, UNITED STATES
Watanabe, Yoshibiro, Mercer Island, WA, UNITED STATES
            Watanabe, Yoshihiro, Mercer Island, WA, UNITED STATES Peckham, David W., Seattle, WA, UNITED STATES Cai, Feng, Lake Forest Park, WA, UNITED STATES Foy, Teresa M., Federal Way, WA, UNITED STATES Corixa Corporation, Seattle, WA, UNITED STATES, 98104
PA
                                                                        UNITED STATES, 98104 (U.S. corporation)
                                              A1
                                                        20030403
ΡI
            US 2003064947
            US 2001-7700
ΑI
                                              A1
                                                        20011130 (10)
RLI
            Continuation-in-part of Ser. No. US 2001-897778, filed on 28 Jun 2001,
            PENDING Continuation-in-part of Ser. No. US 2001-850716, filed on 7 May
             2001, PENDING Continuation-in-part of Ser. No. US 2000-735705, filed on
             12 Dec 2000, PENDING Continuation-in-part of Ser. No. US 2000-685696,
            filed on 9 Oct 2000, PENDING Continuation-in-part of Ser. No. US 2000-662786, filed on 15 Sep 2000, PENDING Continuation-in-part of Ser. No. US 2000-643597, filed on 21 Aug 2000, PENDING Continuation-in-part
            of Ser. No. US 2000-630940, filed on 2 Aug 2000, PENDING Continuation-in-part of Ser. No. US 2000-606421, filed on 28 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-542615, filed on 4 Apr 2000, PENDING Continuation-in-part of Ser. No. US 2000-510376, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser. No. US 2000-480884, filed on 10 Jan 2000, PENDING Continuation-in-part of Ser. No. US
```

1999-476496, filed on 30 Dec 1999, PENDING Continuation-in-part of Ser.

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of Ser. No. US 1999-285479, filed on 2 Apr 1999, PENDING
            Continuation-in-part of Ser. No. US 1998-221107, filed on 22 Dec 1998, PENDING Continuation-in-part of Ser. No. US 1998-123912, filed on 27 Jul
            1998, GRANTED, Pat. No. US 6312695 Continuation-in-part of Ser. No. US
            1998-40802, filed on 18 Mar 1998, PENDING
DT
            Utility
FS
            APPLICÂTION
LN.CNT
            16032
            INCLM:
INCL
                       514/044.000
            INCLS: 424/093.210
NCL
            NCLM:
                        514/044.000
            NCLS:
                        424/093.210
IC
            [7]
            ICM: A61K048-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
        ANSWER 63 OF 211
                                       USPATFULL on STN
AN
            2003:93010
                                USPATFULL
            Novel proteins and nucleic acids encoding same
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Condense, Ct. Comp. Nov. 1
TI
IN
           Spaderna, Steven Kurt, Berlin, CT, UNITED STATES
Shimkets, Richard A., West Haven, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
           Spytek, Kimberly Ann, New Haven, CT, UNITED STATES
Spytek, Kimberly Ann, New Haven, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Li, Li, Cheshire, CT, UNITED STATES
Gusev, Vladimir Y., Madison, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Lepley, Denise M., Branford, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Gerlach, Valerie I., Branford, CT, UNITED STATES
                                                                                 UNITED STATES
            Gerlach, Valerie L., Branford, CT, UNITED STATES
            Ellerman, Karen, Branford, CT, UNITED STATES MacDougall, John R., Hamden, CT, UNITED STATES Stone, David J., Guilford, CT, UNITED STATES Smithson, Glennda, Guilford, CT, UNITED STATES
PΙ
            US 2003064369
                                                      20030403
                                             A1
ΑI
                 2001-918779
            US
                                             A1
                                                      20010730
PRAI
                                               20000728
            US 2000-221409P
                                                               (60)
            US 2000-222840P
                                               20000804
                                                               (60)
            US 2000-223752P
                                               20000808
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            US 2000-223762P
                                               20000808
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            US 2000-223770P
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            US 2000-223769P
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                                                               (60)
            US 2000-225146P
                                               20000814
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            US 2000-225392P
US 2000-225470P
                                               20000815
                                                               (60)
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                                                               (60)
            US 2000-225697P
                                               20000816
                                                               (60)
            US 2001-263662P
                                               20010201
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            US 2001-281645P
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DT
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FS
            APPLICATION
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INCL
            INCLM: 435/006.000
            INCLS: 435/069.100; 435/325.000; 435/320.100; 435/183.000; 530/350.000;
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                        435/006.000
435/069.100; 435/325.000; 435/320.100; 435/183.000; 530/350.000;
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            NCLM:
            NCLS:
                        536/023.200
IC
            [7]
            ICM: C12Q001-68
            ICS: C07H021-04; C12N009-00; C07K014-435; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
        ANSWER 64 OF 211
                                       USPATFULL on STN
                               USPATFULL
AN
            2003:86163
ΤI
            Novel polypeptides and nucleic acids encoding same
           Vernet, Corine, North Branford, CT, UNITED STATES
Fernandes, Elma, Branford, CT, UNITED STATES
Shimkets, Richard A., West Haven, CT, UNITED STATES
MacDougall, John, Hamden, CT, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
IN
PΙ
            US 2003059768
                                             A1
                                                     20030327
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PRAI
       US 2000-185548P
                             20000228
                                       (60)
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       US 2000-199957P
                                       (60)
                             20000225
                                       (60)
       US 2000-184951P
       US 2000-185967P
                             20000301
                                       (60)
       US 2000-197723P
                             20000418 (60)
DT
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FS
       APPLICATION
LN.CNT
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INCL
       INCLM: 435/006.000
               435/069.100; 435/183.000; 435/325.000; 435/320.100; 536/023.200
       INCLS:
NCL
       NCLM:
               435/006.000
       NCLS:
               435/069.100; 435/183.000; 435/325.000; 435/320.100; 536/023.200
IC
        [7]
       ICM: C12Q001-68
       ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 65 OF 211
L10
                        USPATFULL on STN
       2003:65371
AN
                   USPATFULL
TI
       Method for selective expression of therapeutic genes by hyperthermia
       Li, Chuan-Yuan, Durham, NC, UNITED STATES Huang, Qian, Shanghai, CHINA
IN
       Dewhirst, Mark W., Durham, NC
                                        UNITED STATES
       US 2003045495
                                 20030306
PΙ
                            A1
AΙ
       US 2002-172399
                            A1
                                 20020614
                                           (10)
PRAI
       US 2001-298305P
                             20010614 (60)
DT
       Utility
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LN.CNT
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INCL
       INCLM: 514/044.000
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       NCLM:
               514/044.000
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       ICM: A61K048-00
CAS
    INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 66 OF 211
                        USPATFULL on STN
AN
                    USPATFULL
       2003:64267
TI
       Method and activated lymphocyte preparations for preventing recurrence
       of carcinoma
IN
       Sekine, Teruaki, Koto-ku, JAPAN
                  Tadatoshi, Suginami-ku, JAPAN
       Takayama,
PΙ
       US 2003044387
                            A1
                                 20030306
       US 2001-944360
ΑI
                            A1
                                 20010904 (9)
       Utility
DT
FS
       APPLICĀTION
LN.CNT
       610
       INCLM: 424/093.700
INCL
       INCLS: 424/085.200; 424/144.100
NCL
       NCLM:
               424/093.700
       NCLS:
               424/085.200; 424/144.100
        [7]
IC
       ICM: A61K045-00
       ICS: A61K039-395; A61K038-20
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 67 OF 211
                        USPATFULL on STN
ΑN
      " 2003:57960
                   USPATFULL
TI
       Adjuvant chemotherapy for anaplastic gliomas
IN
       Levin, Victor A., Houston, TX, UNITED STATES
ΡI
       US 2003040526
                                 20030227
                            Α1
       US 6653351
                            B2
                                 20031125
       US 2002-218097
ΑI
                            A1
                                 20020813
                                           (10)
PRAI
       US 2001-311914P
                             20010813 (60)
       Utility
DT
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       APPLICĂTION
LN.CNT
       1170
INCL
       INCLM: 514/283.000
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       NCLM:
NCL
               514/564.000
       NCLS:
               514/283.000
IC
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       ICM: A61K031-4745
       ICS: A61K031-175
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
          2003:57933
                         USPATFULL
TI
          Antisense-oligonucleotides for the treatment of immuno-suppressive
          effects of transforming growth factor-beta (TGF-beta)
IN
          Sclingensiepen, Georg-Fredinand, Gottingen, GERMANY,
                                                                                     FEDERAL REPUBLIC OF
         Brysch, Wolfgang, Gottingen, GERMANY, FEDERAL REPUBLIC OF
Schlingensiepen, Karl-Hermann, Bovenden, GERMANY, FEDERAL REPUBLIC OF
Schlingensiepen, Reimar, Gottingen, GERMANY, FEDERAL REPUBLIC OF
Bogdahn, Ulrich, Wurzburg, GERMANY, FEDERAL REPUBLIC OF
Biognostik Gesellschaft Fur Biomolekulare Diagnostik mbH, Gottingen,
PA
          GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)
PΙ
          US 2003040499
                                            20030227
                                    A1
AΙ
          US 2002-146058
                                    Α1
                                            20020516 (10)
          Continuation of Ser. No. US 1995-535249, filed on 30 Oct 1995, GRANTED, Pat. No. US 6455689 A 371 of International Ser. No. WO 1994-EP1362,
RLI
          filed on 29 Apr 1994, UNKNOWN
                                      19930430
PRAI
          EP 1993-107089
          EP 1993-107849
                                      19930513
DT
          Utility
FS
          APPLICATION
LN.CNT
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          INCLM: 514/044.000
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                   536/023.500; 536/025.340
          INCLS:
NCL
                    514/044.000
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         NCLS:
                    536/023.500; 536/025.340
IC
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          ICM: A61K048-00
          ICS: C07H021-04; C07H021-02
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
       ANSWER 69 OF 211
                                USPATFULL on STN
          2003:3462 USPATFULL
AN
         Identification of gene sequences and gene products and their specific function and relationship to pathologies in a mammal Jendoubi, Moncef, Bethesda, MD, UNITED STATES
TI
IN
         Milagen, Inc., Richmond, CA (U.S. corporation) US 2003003497 A1 20030102
PA
PΙ
ΑI
          US 2002-213183
                                            20020805 (10)
                                    A1,
         Division of Ser. No. US 1997-906487, filed on 5 Aug 1997, ABANDONED
RLI
DT
          Utility
          APPLICÂTION
FS
LN.CNT
         3352
INCL
          INCLM: 435/006.000
          INCLS: 435/007.100; 435/007.230; 800/006.000
NCL
         NCLM:
                    435/006.000
                    435/007.100; 435/007.230; 800/006.000
         NCLS:
IC
          [7]
          ICM: C12Q001-68
          ICS: G01N033-53; G01N033-574
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       ANSWER 70 OF 211
L10
                                USPATFULL on STN
          2003:321337 USPATFULL
AN
TI
          Oromucosal cytokine compositions and uses thereof
IN
          Tovey, Michael Gerard, Paris, FRANCE
PA
          Pharma Pacific Pty Ltd, Laverton North, AUSTRALIA (non-U.S. corporation)
ΡI
         US 6660258
                                    B1
                                            20031209
         US 1998-169844 19981009 (9)
Continuation-in-part of Ser. No. US 1997-853870, filed on 9 May 1997, now patented, Pat. No. US 6207145 Continuation-in-part of Ser. No. US 1997-853293, filed on 9 May 1997, now patented, Pat. No. US 5997858
Continuation-in-part of Ser. No. US 1997-853292, filed on 9 May 1997
ΑI
RLI
DT
          Utility
          GRANTEĎ
FS
LN.CNT
         1471
INCL
          INCLM: 424/085.200
          INCLS: 424/198.100; 519/002.000; 530/351.000
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         NCLM:
                   424/085.200
                    424/198.100; 514/002.000; 530/351.000
          NCLS:
IC
          [7]
          ICM: A61K045-00
          ICS: A61K039-00; A61K038-00; C07K017-08 519/2; 424/85.2; 424/198.1; 530/351
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

L10

ANSWER 71 OF 211 USPATFULL on STN

```
TI
        Enzymatic nucleic acid treatment of diseases of conditions related to
        levels of epidermal growth factor receptors
        Akhtar, Saghir, Birmingham, UNITED KINGDOM
IN
        Fell, Patricia, Birmingham, UNITED KINGDOM
        McSwiggen, James A., Boulder, CO, United States
Sirna Therapeutics, Inc., Boulder, CO, United States (U.S. corporation)
PA
        Aston University, Birmingham, UNITED KINGDOM (non-U.S. corporation) US 6623962 B1 20030923
PΙ
        US 1999-401063
ΑI
                                     19990922 (9)
        Continuation of Ser. No. US 1997-985162, filed on 4 Dec 1997, now
RLI
        patented, Pat. No. US 6057156
        ŪS 1997-36476P
PRAI
                                19970131 (60)
DT
        Utility
FS
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LN.CNT
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        INCLM: 435/375.000
INCL
        INCLS: 435/006.000; 435/091.100; 435/091.300; 536/023.100; 536/023.200;
                536/024.300; 536/024.310; 536/024.330; 536/024.500
                435/375.000
435/006.000; 435/091.100; 435/091.300; 536/023.100; 536/023.200;
536/024.300; 536/024.310; 536/024.330; 536/024.500
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NCL
        NCLS:
IC
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        ICM: C07H021-04
        ICS: C12N015-86; C12N015-85; C12Q001-68; C12P019-34
        435/6; 435/91.1; 435/91.3; 435/375; 536/23.1; 536/23.2; 536/24.5;
EXF
        536/24.3; 536/24.31; 536/24.33
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 72 OF 211 USPATFULL on STN 2003:148995 USPATFULL
L10
AN
TI
        DFMO and celecoxib in combination for cancer chemoprevention and therapy
        Love, Richard, San Antonio, TX, United States
ILEX Oncology, Inc., San Antonio, TX, United States (U.S. corporation)
US 6573290
Bl 20030603
IN
PA
ΡI
                                     20000517 (9)
ΑI
        US 2000-573089
PRAI
                                19990517 (60)
        US 1999-134582P
DT
        Utility
FS
        GRANTED
LN.CNT
        1330
INCL
        INCLM: 514/406.000
                514/564.000
        INCLS:
                514/406.000
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                514/564.000
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IC
        ICM: A61K031-415
        ICS: A61K031-195
        514/406; 514/564
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 73 OF 211 USPATFULL on STN
        2003:40568
                     USPATFULL
AN
        IL-13 receptor specific chimeric proteins and uses thereof Puri, Raj K., North Potomac, MD, United States Debinski, Waldemar, Hummelstown, PA, United States
TI
IN
        Pastan, Ira, Potomac, MD, United States
                Nicholas, N. Potomac, MD, United States
        The United States of America as represented by the Department of Health
PA
        and Human Services, Washington, DC, United States (U.S. government) US 6518061 B1 20030211
PΙ
        WO 9629417
                      19960926
        US 1998-913370
AΙ
                                     19980217 (8)
        WO 1996-US3486
                                     19960315
        Continuation-in-part of Ser. No. US 1995-404685, filed on 15 Mar 1995,
RLI
        now patented, Pat. No. US 5614191
DT
        Utility
        GRANTED
FS
LN.CNT
        2520
INCL
        INCLM: 435/320.100
        INCLS: 435/069.700; 435/328.000; 435/334.000; 530/351.000
NCL
        NCLM:
                435/320.100
        NCLS:
                435/069.700; 435/328.000; 435/334.000; 530/351.000
IC
        [7]
        ICM: C12N015-74
        ICS: C12N005-10; C12P021-04
EXF
        424/143.1; 424/155.1; 424/174.1; 435/69.7; 435/91.1; 435/328; 435/334;
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536/235; 536/23.53
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 74 OF 211 USPATFULL on STN
AN
        2003:6647 USPATFULL
        Allogeneic cellular vaccine
TI
        Bigner, Darell D., Mebane, NC, United States
Sampson, John H., Durham, NC, United States
Ashley, David M., Victoria, AUSTRALIA
Hale, Laura P., Hillsborough, NC, United States
Duke University, Durham, NC, United States (U.S. corporation)
US 6503503

B1 20030107
IN
PA
PΙ
        US 1997-855280
ΑI
                                      19970513 (8)
        Utility
DT
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        GRANTED
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INCL
        INCLM: 424/093.210
        INCLS: 424/093.200; 424/093.100; 435/325.000; 435/320.100; 435/455.000
NCL
        NCLM:
                 424/093.210
        NCLS:
                 424/093.100; 424/093.200; 435/320.100; 435/325.000; 435/455.000
         [7]
IC
        ICM: A61K048-00
        ICS: C12N015-87; C12N005-02; C12N015-63
        424/93.21; 424/93.1; 424/93.2; 435/325; 435/455; 435/320.1
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
       ANSWER 75 OF 211 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN
       2003:37526817
                          BIOTECHNO
ΑN
       Cytokine immuno-gene therapy for treatment of
TΙ
                                                                  ***brain***
         ***tumors***
       Lichtor T.; Glick R.P.
T. Lichtor, Department of Neurosurgery, Suite 3202, 1835 West Harrison
Street, Chicago, IL 60612, United States.
ΑU
CS
       E-mail: Terry_Lichtor@rush.edu
Journal of Neuro-Oncology, (2003), 65/3 (247-259), 48 reference(s)
SO
                         ISSN: 0167-594X
       CODEN: JNODD2
DT
       Journal; Article
       United States
CY
LΑ
       English
SL
       English
      ANSWER 76 OF 211
                           USPATFULL on STN
L10
        2002:300808 USPATFULL
ÀΝ
TI
        Fusion cells and cytokine compositions for treatment of disease
IN
        Ohno, Tsuneya, Boston, MA, UNITED STATES
ΡI
        US 2002168351
                               A1
                                     20021114
                                      20011022 (10)
        US 2001-12134
ΑI
                               A1
        US 2000-242154P
                                 20001020 (60)
PRAI
        Utility
APPLICATION
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LN.CNT
        2136
        INCLM: 424/093.210
INCL
        INCLS: 435/372.000; 435/366.000
                 424/093.210
NCL
        NCLM:
        NCLS:
                 435/372.000; 435/366.000
IC
        [7]
        ICM: A61K048-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 77 OF 211
                           USPATFULL on STN
        2002:280588 USPATFULL
ΑN
ΤI
        Immunostimulatory nucleic acids and cancer medicament combination
        therapy for the treatment of cancer
        Bratzler, Robert L., Concord, MA, UNITED STATES Petersen, Deanna M., Newton, MA, UNITED STATES
IN
ΡI
        US 2002156033
                               A1
                                      20021024
        US 2001-800266
                                      20010305 (9)
AΙ
                               A1
        US 2000-187214P
Utility
PRAI
                                20000303 (60)
DT
FS
        APPLICATION
LN.CNT
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INCL
        INCLM: 514/044.000
        INCLS: 514/008.000; 514/050.000; 514/251.000; 424/085.500; 424/277.100;
                 514/449.000; 514/509.000
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514/008.000; 514/050.000; 514/251.000; 424/085.500; 424/277.100:
           NCLS:
                       514/449.000; 514/509.000
IC
            [7]
           ICM: A61K048-00
           ICS: A61K038-21; A61K039-00; A61K038-16
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
        ANSWER 78 OF 211
L10
                                     USPATFULL on STN
           2002:279684
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AN
TI
           Novel proteins and nucleic acids encoding same
           Vernet, Corine A.M., North Branford, CT, UNITED Fernandes, Elma R., Branford, CT, UNITED STATES
IN
                                                                              UNITED STATES
           Shimkets, Richard A., West Haven, CT, UNITED STATES Herrmann, John L., Guilford, CT, UNITED STATES
           Majumder, Kumud, Stamford, CT, UNITED STATES
           MacDougall, John R., Hamden, CT, UNITED STATES
Mishra, Vishnu S., Gainesville, FL, UNITED STATES
Mezes, Peter S., Old Lyme, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
US 2002155115 Al 20021024
ΡI
           US 2001-808602
ΑI
                                          A1
                                                  20010314
PRAI
           US 2000-186592P
                                            20000303
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           US 2000-186718P
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           US 2000-187293P
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           US 2000-187294P
                                            20000306
                                                           (60)
           US 2000-190400P
                                            20000317
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           US 2000-196018P
                                            20000407
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           US 2001-259548P
                                            20010103 (60)
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           APPLICĀTION
FS
LN.CNT
           12793
           INCLM: 424/155.100
INCL
           INCLS: 435/006.000; 435/007.230; 435/325.000; 536/023.100; 435/320.100
           NCLM:
                       424/155.100
NCL
           NCLS:
                       435/006.000; 435/007.230; 435/325.000; 536/023.100; 435/320.100
IC
           [7]
           ICM: C12Q001-68
           ICS: G01N033-574; C07H021-04; A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
        ANSWER 79 OF 211
                                    USPATFULL on STN
AN
           2002:266264 USPATFULL
           Compositions and methods for the therapy and diagnosis of lung cancer
TI
IN
           Wang, Tongtong, Medina, WA, UNITED STATES
           Durham, Margarita, Seattle, WA, UNITED STATES
           Fanger, Gary R., Mill Creek, WA, UNITED STATES
Vedvick, Thomas S., Federal Way, WA, UNITED STATES
Carter, Darrick, Seattle, WA, UNITED STATES
           Watanabe, Yoshihiro, Mercer Island, WA, UNITED STATES
Henderson, Robert A., Edmonds, WA, UNITED STATES
Peckham, David W., Seattle, WA, UNITED STATES
Fanger, Neil, Seattle, WA, UNITED STATES
Corixa Corporation, Seattle, WA, 98104 (U.S. corporation)
PA
                                          A1
                                                  20021010
ΡI
           US 2002147143
           US 2001-897778 Al 20010628 (9)
Continuation-in-part of Ser. No. US 2001-850716, filed on 7 May 2001,
PENDING Continuation-in-part of Ser. No. US 2000-735705, filed on 12 Dec
ΑĮ
RLI
           2000, PENDING Continuation-in-part of Ser. No. US 2000-685696, filed on
           9 Oct 2000, PENDING Continuation-in-part of Ser. No. US 2000-662786, filed on 15 Sep 2000, PENDING Continuation-in-part of Ser. No. US 2000-662786, filed on 15 Sep 2000, PENDING Continuation-in-part of Ser. No. US 2000-630940, filed on 2 Aug 2000, PENDING Continuation-in-part of Ser. No. US 2000-630940, filed on 2 Aug 2000, PENDING Continuation-in-part of Ser. No. US 2000-606421, filed on 28 Jun 2000, PENDING
           Continuation-in-part of Ser. No. US 2000-542615, filed on 4 Apr 2000,
           PENDING Continuation-in-part of Ser. No. US 2000-510376, filed on 22 Feb
           2000, PENDING Continuation-in-part of Ser. No. US 2000-480884, filed on
           10 Jan 2000, PENDING Continuation-in-part of Ser. No. US 1999-476496,
           filed on 30 Dec 1999, PENDING Continuation-in-part of Ser. No. US
           1999-466396, filed on 17 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-285479, filed on 2 Apr 1999, PENDING Continuation-in-part of Ser. No. US 1998-221107, filed on 22 Dec 1998, PENDING Continuation-in-part of Ser. No. US 1998-123912, filed on 27 Jul 1998, PATENTED Continuation-in-part of Ser. No. US 1998-40802, filed on 18 Mar
           1998, PENDING
           Utility
DT
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LN.CNT 15138
INCL
        INCLM: 514/012.000
                514/044.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200;
        INCLS:
                530/350.000; 435/183.000
NCL
        NCLM:
                514/012.000
        NCLS:
                514/044.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200;
                530/350.000; 435/183.000
IC
        [7]
        ICM: A61K048-00
        ICS: A61K038-17; C07H021-04; C12N009-00; C12P021-02; C12N005-06;
        C07K014-435
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 80 OF 211
                           USPATFULL on STN
AN
        2002:251841
                      USPATFULL
TI
        Alpha-Difluoromethylornithine (DFMO) suppresses polyamine levels in the
        human prostate
        Meyskens, Frank L., JR., Irvine, CA, UNITED STATES
Simoneau, Anne R., Long Beach, CA, UNITED STATES
Gerner, Eugene W., Tucson, AZ, UNITED STATES
IN
                Eugene W.,
                                    20020926
ΡI
        US 2002137797
                              A1
        US 2001-938846
ΑI
                                    20010824
                              A1
PRAI
        US 2000-227714P
                               20000824 (60)
        Utility
DT
FS
        APPLICATION
LN.CNT
        1646
INCL
        INCLM: 514/564.000
        NCLM:
                514/564.000
NCL
IC
        [7]
        ICM: A61K031-198
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 81 OF 211
                           USPATFULL on STN
        2002:243051 USPATFULL
AN
TI
        Compositions and methods for the therapy and diagnosis of ovarian cancer
                            Issaquah, WA, UNITED STATES
IN.
        Algate, Paul A.,
        Jones, Robert, Seattle, WA, UNITED STATES
        Harlocker, Susan L., Seattle, WA, UNITED STATES
Corixa Corporation, Seattle, WA, UNITED STATES,
US 2002132237 A1 20020919
PA
                                              UNITED STATES, 98104 (U.S. corporation)
PI.
        US 2001-867701
ΑI
                              A1
                                    20010529
                                               (9)
PRAI
        US 2000-207484P
                               20000526 (60)
        Utility
DT
FS
        APPLICATION
        25718
LN.CNT
INCL
        INCLM: 435/006.000
        INCLS: 435/091.200
        NCLM:
NCL
                435/006.000
        NCLS:
                435/091.200
IC
        [7]
        ICM: C12Q001-68
        ICS: C12P019-34
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 82 OF 211
                           USPATFULL on STN
                      USPATFULL
\mathbf{A}\mathbf{N}
        2002:198588
TI
        IDENTIFICATION OF GENE SEQUENCES AND GENE PRODUCTS AND THEIR SPECIFIC
        FUNCTION AND RELATIONSHIP TO PATHOLOGIES IN A MAMMAL
        JENBOUBI, MONCEF, BETHESDA, MD, UNITED STATES
IN
        US 2002106688
US 1997-906487
ΡI
                                    20020808
                              A1
ΑI
                              A1
                                    19970805 (8)
        Utility
DT
        APPLICÂTION
FS
LN.CNT
        3380
INCL
        INCLM: 435/007.100
NCL
        NCLM:
                435/007.100
        [7]
IC
        ICM: G01N033-53
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 83 OF 211
                           USPATFULL on STN
                      USPATFULL
AN
        2002:31946
        Genes differentially expressed in cancer cells to design cancer vaccines Roberts, Bruce L., Southboro, MA, UNITED STATES
TI
ΙN
        Shankara, Srinivas, Shrewsbury, MA, UNITED STATES
```

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PΙ
        US 2002018766
                              `A1
                                    20020214
                                    20010405 (9)
ΑI
        US 2001-826609
                             A1
        Continuation of Ser. No. WO 1999-US23166, filed on 4 Oct 1999, UNKNOWN
RLI
PRAI
        US 1998-103220P
                               19981005 (60)
DT
        Utility
        APPLICATION
FS
LN.CNT
        2537
        INCLM: 424/093.210
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        INCLS: 424/085.100; 424/155.100; 435/006.000
                424/093.210
NCL
        NCLM:
        NCLS:
                424/085.100; 424/155.100; 435/006.000
IC
        [7]
        ICM: A61K048-00
        ICS: C12Q001-68; A61K039-395; A61K038-19
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
                          USPATFULL on STN
L10
     ANSWER 84 OF 211
AN
        2002:17264
                     USPATFULL
        Enhancing the sensitivity of ***tumor*** cells
Sobol, Robert, Rancho Santa Fe, CA, UNITED STATES
Gjerset, Ruth, San Diego, CA, UNITED STATES
TI
                                                            cells to therapies
IN
                                    20020124
ΡI
        US 2002010144
                              A1
        US 2001-758956
                                    20010110 (9)
ΑI
                              A1
RLI
        Continuation of Ser. No. US 1994-335461, filed on 7 Nov 1994, PENDING
        Continuation-in-part of Ser. No. US 1994-236221, filed on 29 Apr 1994,
        ABANDONED
DT
        Utility
        APPLICATION
FS
LN.CNT
        1282
INCL
        INCLM: 514/044.000
NCL
        NCLM:
               514/044.000
IC
        [7]
        ICM: A61K048-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 85 OF 211
                         USPATFULL on STN
ΑN
        2002:12533 USPATFULL
        Enhancing the sensitivity of ***tumor*** cells to Sobol, Robert E., Rancho Santa Fe, CA, UNITED STATES
TI
                                                            cells to therapies
IN
        Gjerset, Ruth, San Diego, CA, UNITED STATES
US 2002006914 A1 20020117
PΙ
        US 2001-769752
                                    20010126 (9)
AΙ
                              A1
        Continuation of Ser. No. US 1999-305254, filed on 4 May 1999, ABANDONED Continuation of Ser. No. US 1994-335461, filed on 7 Nov 1994, PENDING
RLI
        Continuation-in-part of Ser. No. US 1994-236221, filed on 29 Apr 1994,
        ABANDONED
DT
        Utility
FS
        APPLICÂTION
LN.CNT
        1283
INCL
        INCLM: 514/044.000
                514/044.000
NCL
        NCLM:
IC
        [7]
        ICM: A61K048-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 86 OF 211 USPATFULL on STN
·AN
        2002:12033 USPATFULL
TI
        Composition and method of cancer antigen immunotherapy
IN
        Wood, Gary W., Kansas City, MO, UNITED STATES
        US 2002006409
US 2001-899780
                                    20020117
ΡI
                           A1
                                    20010705 (9)
ΑI
                              A1
        Division of Ser. No. US 1999-412681, filed on 5 Oct 1999, PENDING
RLI
DT
        Utility
        APPLICĀTION
FS
LN.CNT
        1295
INCL
        INCLM: 424/184.100
        INCLS: 424/093.700
NCL
        NCLM:
                424/184.100
        NCLS:
                424/093.700
IC
        [7]
        ICM: A61K039-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 87 OF 211
                          USPATFULL on STN
L10
        2002:3613 USPATFULL
AN
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Liau, Linda M., Los Angeles, CA, UNITED STATES
The Regents of the University of California (U.S. corporation)
IN
PA
PΙ
                                       20020103
                                A1
         US 2002001586
         US 6558668
                                B2
                                       20030506
        US 2001-795714
                                       20010228 (9)
AΤ
                                A1
                                  20000228 (60)
         US 2000-185321P
PRAI
        Utility APPLICATION
DT
FS
LN.CNT
        2149
INCL
         INCLM: 424/155.100
         INCLS: 514/044.000
                 424/174.100
NCL
        NCLM:
        NCLS:
                 435/455.000
IC
         [7]
         ICM: A61K048-00
         ICS: A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 88 OF 211
                            USPATFULL on STN
                         USPATFULL
AN
         2002:246851
TI
         Antisense-oligonucleotides for transforming growth factor..beta.
         (TGF-.beta.)
IN
         Schlingensiepen, Georg-Ferdinand, Gottingen, GERMANY, FEDERAL REPUBLIC
        OF
        Brysch, Wolfgang, Gottingen, GERMANY, FEDERAL REPUBLIC OF Schlingensiepen, Karl-Hermann, Bovenden, GERMANY, FEDERAL REPUBLIC OF
        Schlingensiepen, Reimar, Gottingen, GERMANY, FEDERAL REPUBLIC OF Bogdahn, Ulrich, Wurzburg, GERMANY, FEDERAL REPUBLIC OF Biognostik Gesellschaft fur Biomolekulare Diagnostik mbH, Gottingen,
PA
         GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)
PΙ
        US 6455689
                                       20020924
         WO 9425588
                        19941110
        US 1995-535249
                                       19951030 (8)
AI
        WO 1994-EP1362
                                       19940429
                                       19951030
                                                    PCT 371 date
        EP 1993-107089
PRAI
                                  19930430
        EP 1993-107849
                                  19930513
        Utility
DT
FS
         GRANTED
LN.CNT
        1236
         INCLM:
INCL
                 536/024.500
                 536/023.100; 536/023.200; 536/024.300; 536/024.310; 536/024.330;
         INCLS:
                 435/006.000
NCL
        NCLM:
                  536/024.500
         NCLS:
                  435/006.000; 536/023.100; 536/023.200; 536/024.300; 536/024.310;
                  536/024.330
IC
         [7]
         ICM: C07H021-02
         ICS: C07H021-04; C12Q001-68
EXF 435/6; 435/91.31; 435/172.3; 435/320.1; 435/325; 435/366; 435/375; 536/23.1; 536/24.5; 514/44
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 89 OF 211
L10
                             USPATFULL on STN
ΑN
         2002:246718 USPATFULL
TI
         Use of p97 and iron binding proteins as diagnostic and therapeutic
IN
         Jefferies, Wilfred A., South Surrey
                                                       CANADA
         McGeer, Patrick L., Vancouver, CANADA
        Rothenberger, Sylvia, Epalinges, SWITZERLAND
Food, Michael R., Vancouver, CANADA
Yamada, Tatsuo, Tokyo, JAPAN
         Kennard, Malcolm, Vancouver,
                                             CANADA
         University of British Columbia, Vancouver, CANADA (non-U.S. corporation)
PA
PΙ
         US 6455494
                                B1
                                       20020924
ΑI
         US 1999-285040
                                       19990401 (9)
        Division of Ser. No. US 1995-520933, filed on 31 Aug 1995, now patented, Pat. No. US 5981194 Continuation-in-part of Ser. No. US 1999-367224,
RLI
         filed on 30 Mar 1999, now abandoned Continuation-in-part of Ser. No. US
         1992-912291, filed on 10 Jul 1992, now abandoned
        WO 1993-CA272
Utility
PRAI
                                  19930709
DT
         GRANTED
FS
LN.CNT
        5164
         INCLM: 514/002.000
INCL
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NCL
        NCLM:
                514/002.000
                435/007.100; 530/350.000; 530/387.100
        NCLS:
        [7]
IC
        ICM: A61K038-00
EXF
        514/2; 530/350; 530/387.1; 435/7.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 90 OF 211
                          USPATFULL on STN
        2002:230597 USPATFULL
AN
TI
        Non-myeloablative tolerogenic treatment
       Slavin, Shimon, Jerusalem, ISRAEL
Prigozhina, Tatyana, Rehovot, ISRAEL
Hadasit Medical Research Services and Development Ltd., Jerusalem,
IN
PA
        ISRAEL (non-U.S. corporation)
PΙ
        US 6447767
                                   20020910
                                   20000216 (9)
ΑI
        US 2000-506082
        Continuation-in-part of Ser. No. US 1998-222011, filed on 31 Dec 1998
RLI
        Continuation-in-part of Ser. No. US 1997-862550, filed on 23 May 1997,
        now_abandoned
DT
        Utility
        GRANTED
FS
LN.CNT
       3356
        INCLM: 424/093.100
INCL
        INCLS: 424/093.210; 514/002.000; 514/044.000; 435/325.000
NCL
        NCLM:
                424/093.100
        NCLS:
                424/093.210; 435/325.000; 514/002.000; 514/044.000
        [7]
IC
        ICM: A61K038-00
        ICS: A61K048-00; C12N015-85
        424/93.21; 424/93.1; 514/2;
EXF
                                       514/44
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 91 OF 211
                          USPATFULL on STN
        2002:194562 USPATFULL
ΑN
TI
        Compositions and methods for specifically targeting
                                                                     ***tumors***
       Debinski, Waldemar, Hummelstown, PA, United States
Puri, Raj K., North Potomac, MD, United States
IN
PA
        Penn State University, United States (U.S. corporation)
PI
                             BĪ
                                   20020806
        US 6428788
        US 1996-706207 19960830 (8)
Continuation-in-part of Ser. No. US 1995-404685, filed on 15 Mar 1995,
AΙ
RLI
        now patented, Pat. No. US 5614191
DT
        Utility
FS
        GRANTED
LN.CNT
       3421
INCL
        INCLM: 424/143.100
        INCLS: 424/085.200; 435/007.230; 530/350.000; 514/002.000
NCL
               424/143.100
        NCLM:
        NCLS:
                424/085.200; 435/007.230; 514/002.000; 530/350.000
        [7]
IC
        ICM: A61K039-395
        ICS: A61K045-00; A61K038-00; G01N033-574
        514/2; 424/143.1; 424/85.2; 530/350; 435/7.23
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 92 OF 211
                         USPATFULL on STN
        2002:143945 USPATFULL
AN
TI
        Composition and method of cancer antigen immunotherapy
IN
        Wood, Gary W., 6609 State Line Rd., Kansas City, MO, United States
        64113
        US 6406699
ΡI
                             B1
                                   20020618
        US 1999-412681
ΑI
                                   19991005 (9)
DT
        Utility
FS
        GRANTED
LN.CNT
       1252
INCL
        INCLM: 424/184.100
        INCLS: 424/278.100; 424/193.100; 424/195.110; 424/198.100; 424/277.100
NCL
        NCLM:
                424/184.100
        NCLS:
                424/193.100; 424/195.110; 424/198.100; 424/277.100; 424/278.100
IC
        [7]
        ICM: A61K039-00
        ICS: A61K039-38; A61K039-385; A61K045-00; A61K047-00 424/184.1; 424/193.1; 424/195.11; 424/198.1; 424/277.1; 424/278.1
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

```
AN
        2002:136554
                      USPATFULL
        Process for producing a pharmaceutical composition containing a protein
ΤI
        which induces interferon-.gamma. production by an immunocompetent cell
IN
        Akita, Kenji, Okayama, JAPAN
       Nukada, Yoshiyuki, Okayama, JAPAN
Fujii, Mitsukiyo, Okayama, JAPAN
Tanimoto, Tadao, Okayama, JAPAN
Kurimoto, Masashi, Okayama, JAPAN
Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, JAPAN (non-U.S.
PA
        corporation)
ΡI
        US 6403079
                                  20020611
                             B1
ΑI
        US 2001-819902
                                  20010329 (9)
        Division of Ser. No. US 1997-832198, filed on 8 Apr 1997, now patented,
RLI
        Pat. No. US 6242255 Division of Ser. No. US 1996-721018, filed on 26 Sep
        1996, now abandoned
        JP 1995-270725
PRAI
                              19950926
                              19960229
        JP 1996-67434
        JP 1996-269105
                              19960920
        JP 1996-10050403
                              19960920
DT
        Utility
FS
        GRANTED
LN.CNT
       1025
        INCLM: 424/085.400
INCL
               514/002.000; 514/012.000; 514/021.000; 530/350.000; 530/351.000;
        INCLS:
               530/324.000; 435/325.000; 435/366.000
NCL
        NCLM:
               424/085.400
               435/325.000; 435/366.000; 514/002.000; 514/012.000; 514/021.000;
        NCLS:
               530/324.000; 530/350.000; 530/351.000
IC
        [7]
        ICM: A61K038-21
        ICS: C12N005-08; C07K017-00
        514/2; 514/12; 514/21; 424/85.4; 530/350; 530/351; 530/324; 435/325; 435/366
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 94 OF 211
L10
                        USPATFULL on STN
        2001:199741
                     USPATFULL
AN
                                                    ***tumor***
                                                                    cells combined
TI
        Cancer immunotherapy using autologous
        with cells expressing a membrane cytokine
IN
        Hiserodt, John C., Huntington Beach, CA, United States
        Graf, Martin R., Richmond, VA, United States
        Granger, Gale A., Laguna Beach, CA, United States
        US 2001038841
                            ΑĬ
ΡI
                                  20011108
AΙ
        US 2001-875349
                            A1
                                  20010605
                                            (9)
        Division of Ser. No. US 1997-901225, filed on 24 Jul 1997, GRANTED, Pat.
RLI
        No. US 6277368
        US 1996-23108P
PRAI
                              19960725 (60)
        US 1996-29286P
                              19961029 (60)
        Utility
DT
        APPLICATION
FS
LN.CNT
       2638
        INCLM: 424/130.100
INCL
        INCLS: 424/277.100; 435/368.000
               424/130.100
NCL
        NCLM:
        NCLS:
               424/277.100; 435/368.000
        [7]
IC
        ICM: A61K039-395
        ICS: A61K039-00; C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 95 OF 211
                        USPATFULL on STN
L10
        2001:193945 USPATFULL
AN
                                                    ***tumor***
                                                                    cells combined
TI
        Cancer immunotherapy using autologous
        with cells expressing a membrane cytokline
IN
        Hiserodt, John C., Huntington Beach, CA, United States
        Graf, Martin R., Richmond, VA, United States
        Granger, Gale A., Laguna Beach, CA, United States
PI
        US 2001036458
                             A1
                                  20011101
ΑI
                            A1
                                  20010605 (9)
        US 2001-875823
RLI
        Division of Ser. No. US 1997-901225, filed on 24 Jul 1997, GRANTED, Pat.
        No. US 6276923
US 1996-23108P
PRAI
                              19960725 (60)
        US 1996-29286P
                              19961029 (60)
DT
        Utility
        APPLICATION
FS
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INCL
        INCLM: 424/130.100
        INCLS: 424/277.100; 435/368.000
NCL
                424/130.100
        NCLM:
        NCLS:
                424/277.100; 435/368.000
IC
        [7]
        ICM: A61K039-395
        ICS: A61K039-00; C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 96 OF 211
                          USPATFULL on STN
        2001:136177 USPATFULL
AN
        Cancer immunotherapy using autologous
                                                     ***tumor***
TI
                                                                     cells combined
        with cells expressing a membrane cytokine
        Hiserodt, John C., Huntington Beach, CA, United States
IN
        Graf, Martin R., Richmond, VA, United States
        Granger, Gale A., Laguna Beach, CA, United States
        The Regents of the University of California, Oakland, CA, United States
PA
        (U.S. corporation)
        US 6277368
PΙ
                             B1
                                   20010821
AΙ
        US 1997-901225
                                   19970724
                                             (8)
        US 1996-23108P
                               19960725
                                         (60)
PRAI
        US 1996-29286P
                              19961029 (60)
DT
        Utility
        GRANTEĎ
FS
LN.CNT
        2892
INCL
        INCLM: 424/093.210
        INCLS: 424/093.100; 424/093.300; 424/093.700; 424/093.710; 424/085.100;
                424/085.200; 424/085.600; 424/277.100; 435/325.000
                424/093.210
NCL
        NCLM:
        NCLS:
                424/085.100; 424/085.200; 424/085.600; 424/093.100; 424/093.300;
                424/093.700; 424/093.710; 424/277.100; 435/325.000
IC
        ICM: A01N063-00
             C12N015-85; A61K035-12; A61K035-19
        424/93.21; 424/93.1; 424/93.3; 424/93.7; 424/93.71; 424/85.1; 424/85.2;
EXF
        424/85.4; 424/277.1; 435/325
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 97 OF 211
                         USPATFULL on STN
        2001:107927
                      USPATFULL
AN
       DFMO and sulindac combination in cancer chemoprevention
Gerner, Eugene W, Tucson, AZ, United States
Meyskens, Jr., Frank L., Irvine, CA, United States
The Regents of the University of California, Oakland, CA, United States
TI
IN
PA
        (U.S. corporation)
        Arizonia Board of Regents Behalf of the University of Arizonia, Tucson,
        AZ, United States (U.S. corporation)
PΙ
        US 6258845
                                   20010710
                             B1
        US 1999-277688
US 1998-79850P
                                   19990326 (9)
ΑI
PRAI
                              19980328 (60)
        Utility
DT
FS
        GRANTED
LN.CNT
       2318
INCL
        INCLM: 514/544.000
NCL
        NCLM:
                514/544.000
IC
        [7]
        ICM: A61K031-195
        ICS: A61K031-19
514/564; 514/569
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 98 OF 211 USPATE 2001:93487 USPATFULL
L10
                          USPATFULL on STN
AN
TI
        Method of using mouse model for evaluation of HIV vaccines
        Chang, Lung-Ji, 3102 NW. 57th Ter., Gainesville, FL, United States
IN
        32606
ΡI
        US 6248721
                                   20010619
                             B1
ΑI
        US 1997-848760
                                   19970501 (8)
RLI
        Continuation-in-part of Ser. No. US 1997-838702, filed on 9 Apr 1997
DT
        Utility
        GRANTED
FS
LN.CNT
       3940
INCL
        INCLM: 514/044.000
        INCLS: 424/932.000; 800/008.000; 800/011.000; 435/320.100; 435/235.100;
                435/375.000
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NCLS:
                 424/009.200; 435/235.100; 435/320.100; 435/375.000; 800/003.000;
                 800/008.000; 800/011.000
IC
        [7]
        ICM: A61K031-713
        ICS: A61K048-00; C12N015-867; A01K067-027
        424/4; 424/93.2; 435/235.1; 435/172.1; 435/320.1; 435/375; 800/8; 800/11; 514/44; 536/23.5
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
                           USPATFULL on STN
      ANSWER 99 OF 211
AN
        2001:82580
                      USPATFULL
TI
        Protein which induces interferon-gamma production by immunocompetent
        cell
IN ·
        Akita, Kenji, Okayama, Japan
        Nukada, Yoshiyuki, Okayama, Japan
        Fujii, Mitsukiyo, Okayama, Japan
        Tanimoto, Tadao, Okayama, Japan
Kurimoto, Masashi, Okayama, Japan
Kabushiki Kaisha Hayashibara Seibutsu Kegaku Kenkyujo, Okayama, Japan
PA
         (non-U.S. corporation)
ΡI
        US 6242255
                                     20010605
        US 1997-832198
ΑI
                                     19970408 (8)
        Division of Ser. No. US 1996-721018, filed on 26 Sep 1996, now abandoned JP 1995-270725 19950926
RLI
PRAI
        JP 1996-67434
                                19960229
        JP 1996-269105
                                19960920
DT
        Utility
FS
        Granted
LN.CNT
        1045
        INCLM: 435/366.000
INCLS: 435/325.000; 514/002.000; 514/021.000; 530/324.000; 530/350.000
NCLM: 435/366.000
INCL
NCL
        NCLS:
                435/325.000; 514/002.000; 514/021.000; 530/324.000; 530/350.000
IC
        [7]
        ICM: C12N005-08
        514/12; 514/15; 514/14; 514/2; 514/21; 530/300; 530/350; 530/412; 530/324; 435/68.1; 435/69.1; 435/252.3; 435/320.1; 435/325; 435/366;
EXF
        536/23.1; 536/23.5; 424/85.2
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 100 OF 211 USPATFULL on STN 2001:44199 USPATFULL
L10
AN
        Pharmaceutical composition containing IFN-.gamma. inducing polypeptide or factor for treating and/or preventing IFN-.gamma. susceptive diseases
TI
        Torigoe, Kakuji, Okayama, Japan
IN
        Tanimoto, Tadao, Okayama, Japan
        Fukuda, Shigeharu, Okayama, Japan
Kurimoto, Masashi, Okayama, Japan
Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Okayama, Japan
PA
         (non-U.S. corporation)
ΡI
        US 6207641
                                     20010327
                               В1
        US 1997-974469
AΙ
                                     19971120 (8)
        Continuation of Ser. No. US 1996-599879, filed on 14 Feb 1996, now
RLI
        abandoned Continuation-in-part of Ser. No. US 1995-558190, filed on 15
        Nov 1995, now abandoned
PRAI
        JP 1995-78357
                                19950310
        JP 1995-274988
                                19950929
        Utility
DT
FS
        Granted
LN.CNT
        818
        INCLM:
INCL
                514/012.000
        INCLS:
                514/021.000; 514/002.000; 530/351.000; 530/350.000; 530/324.000
NCL
        NCLM:
                 514/012.000
        NCLS:
                514/002.000; 514/021.000; 530/324.000; 530/350.000; 530/351.000
        [7]
IC
        ICM: A61K038-17
        ICS: C07K014-00
EXF
        514/12; 514/21; 514/2; 530/351; 530/350; 530/324
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
       ANSWER 101 OF 211
                             BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN
                          BIOTECHNO
ΑN
       2001:32551987
ΤI
       Adoptive cellular immunotherapy for the treatment of malignant gliomas
       Hayes R.L.; Arbit E.; Odaimi M.; Pannullo S.; Scheff R.; Kravchinskiy D.;
```

AU

Zaroulis C.

```
Staten Island University Hosital, 256 Mason Avenue, Staten Island, NY
        10305, United States.
SO
        Critical Reviews in Oncology/Hematology, (2001), 39/1-2 (31-42), 76
        reference(s)
        CODEN: CCRHEC
                             ISSN: 1040-8428
PUI
        S1040842801001226
DT
        Journal; Conference Article
CY
        Ireland
LΑ
        English
SL
        English
L10
      ANSWER 102 OF 211 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation.
       on STN
AN
       2001:558765 SCISEARCH
GA
       The Genuine Article (R) Number: 450DC
       Treatment of refractory recurrent malignant glioma with adoptive cellular
TI
       immunotherapy: a case report
ΑU
       Huang Y W; Hayes R L (Reprint); Wertheim S; Arbit E; Scheff R
       Staten Isl Univ Hosp, Sanford R Nalitt Inst Canc & Blood Related Dis,
CS
      Immunotherapy Program, 256 Mason Ave, Staten Isl, NY 10305 USA (Reprint); Staten Isl Univ Hosp, Sanford R Nalitt Inst Canc & Blood Related Dis, Immunotherapy Program, Staten Isl, NY 10305 USA; Staten Isl Univ Hosp, Sanford R Nalitt Inst Canc & Blood Related Dis, Dept Med, Staten Isl, NY 10305 USA; Staten Isl Univ Hosp, Sanford R Nalitt Inst Canc & Blood Related Dis, Dept Med, Staten Isl, NY 10305 USA; Staten Isl Univ Hosp, Sanford R Nalitt Inst Canc & Blood
      Related Dis, Dept Lab Med, Staten Isl, NY 10305 USA; Staten Isl Univ Hosp, Sanford R Nalitt Inst Canc & Blood Related Dis, Dept Radiol, Staten Isl,
      NY 10305 USA; Staten Isl Univ Hosp, Sanford R Nalitt Inst Canc & Blood
       Related Dis, Dept Neurosurg, Staten Isl, NY 10305 USA
CYA
       USA
SO
       CRITICAL REVIEWS IN ONCOLOGY HEMATOLOGY, (JUL-AUG 2001) Vol. 39, No. 1-2,
      pp. 17-23.
Publisher: ELSEVIER SCIENCE INC, 655 AVENUE OF THE AMERICAS, NEW YORK, NY
       10010 USA
       ISSN: 1040-8428.
DT
      Article; Journal
LΑ
       English
REC
      Reference Count: 38
       *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
      ANSWER 103 OF 211 USPATFULL on STN 2000:150137 USPATFULL
L10
AN
         Pharmaceutical composition and method for immunoenhancement therapy Hill, Albert Fay, Denver, CO, United States Hill Medical Corporation, La Jolla, CA, United States (U.S. corporation) US 6143717 20001107
TI
IN
PA
ΡI
ΑI
         US 1998-198354
                                           19981124 (9)
         Division of Ser. No. US 1997-790683, filed on 28 Jan 1997, now patented, Pat. No. US 5840770 which is a continuation of Ser. No. US 1995-426088,
RLI
         filed on 21 Apr 1995, now abandoned which is a continuation-in-part of
         Ser. No. US 1993-111288, filed on 24 Aug 1993, now patented, Pat. No. US
          5449522
DT
         Utility
FS
         Granted
LN.CNT
         1663
INCL
          INCLM: 514/003.000
          INCLS: 514/023.000; 514/397.000; 424/610.000
NCL
         NCLM:
                   514/003.000
         NCLS:
                   424/610.000; 514/023.000; 514/397.000
IC
          [7]
          ICM: A61K038-28
ICS: A61K031-70; A61K031-415; A61K033-00

EXF 514/3; 514/23; 514/397; 424/610; 424/686; 424/717

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 104 OF 211 USPATFULL on STN
AN
          2000:53939 USPATFULL
ΤI
          Enzymatic nucleic acid treatment of diseases or conditions related to
          levels of epidermal growth factor receptors
         Akhtar, Saghir, Birmingham, United Kingdom
Fell, Patricia, Wythall, United Kingdom
IN
         McSwiggen, James A., Boulder, CO, United States
         Robozyme Pharmaceuticals, Inc., Boulder, CO, United States (U.S.
PA
          corporation)
PI
                                           20000502
         US 6057156
         US 1997-985162
ΑI
                                          19971204 (8)
```

```
DT
        Utility
FS
        Granted
LN.CNT
        19272
INCL
        INCLM: 435/366.000
        INCLS: 435/006.000; 435/320.100; 435/325.000; 536/023.100; 536/024.500
NCL
        NCLM:
                 435/366.000
                 435/006.000; 435/320.100; 435/325.000; 536/023.100; 536/024.500
        NCLS:
IC
        [7]
        ICM: C12Q001-68
        ICS: C12N015-85; C12N015-63; C07H021-04
EXF
        435/6; 435/320.1; 435/325; 435/366; 536/23.1; 536/24.5
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
                            JICST-EPlus COPYRIGHT 2005 JST on STN
      ANSWER 105 OF 211
AN
                    JICST-EPlus
TI
      Response modifier. Roles of Biological Response Modifiers in the Treatment
      of Cancer.
     YAMAGUCHI YOSHIYUKI; TOGE TETSUYA
Res. Inst. for Nucl. Med. and Biol., Hiroshima Univ.
Gan no Rinsho (Japanese Journal of Cancer Clinics), (2000) vol. 46, no. 3,
ΑU
CS
SO
          297-300. Journal Code: Z0928A (Fig. 2, Tbl. 2, Ref. 10)
      ISSN: 0021-4949
CY
      Japan
DT
      Journal; General Review
LA
      Japanese
      New
STA
      ANSWER 106 OF 211
L10
                           USPATFULL on STN
        1999:159992
                       USPATFULL
AN
        Substance P treatment for immunostimulation
Witten, Mark L., 7032 E. Rosewood St., Tuson, AZ, United States 8
Harris, David T., 4100 N. Alvernon Way, Tucson, AZ, United States
TI
IN
                                                                                      85710
        US 5998376
                                     19991207
PΙ
        US 1998-28003
ΑI
                                     19980223 (9)
        Division of Ser. No. US 1997-829445, filed on 28 Mar 1997
RLI
PRAI
        US 1996-22063P
                                19960723 (60)
DT
        Utility
FS
        Granted
LN.CNT
        772
INCL
        INCLM:
                514/015.000
        INCLS:
                514/002.000; 930/DIG.802; 424/278.100
                514/015.000
NCL
        NCLM:
                424/278.100; 514/002.000; 930/DIG.802
        NCLS:
IC
        [6]
        ICM: A61K038-02
        ICS: A61K038-08; C07K007-06
        514/2; 514/15; 424/278.1
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 107 OF 211
L10
                           USPATFULL on STN
                       USPATFULL
AN
        1999:128351
TI
        Vector for the expression of therapy-relevant genes
        Stein, Ulrike, Berlin, Germany, Federal Republic of Walther, Wolfgang, Berlin, Germany, Federal Republic of Max Delbruck-Centrum fur Molekular Medizin Berlin, Berlin, Germany,
IN
PA
        Federal Republic of (non-U.S. corporation)
ΡI
        US 5968735
                                     19991019
ΑI
        US 1995-439814
                                     19950512 (8)
                                19921112
PRAI
        DE 1992-4238778
                                19931110
        WO 1993-DE1086
DT
        Utility
FS
        Granted
LN.CNT
        1821
INCL
        INCLM: 435/006.000
        INCLS: 435/069.400; 435/069.500; 435/069.510; 435/069.520; 435/069.600;
                435/320.100
NCL
        NCLM:
                435/006.000
        NCLS:
                435/069.400; 435/069.500; 435/069.510; 435/069.520; 435/069.600;
                435/320.100
        [6]
IC
        ICM: C12Q001-68
        ICS: C12N015-85; C12P021-00
        435/6; 435/7.1; 435/320.1; 435/172.1; 435/172.3; 536/23.1; 536/24.1;
EXF
        424/93.6; 514/44
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

```
L10
     ANSWER 108 OF 211
                         USPATFULL on STN
                     USPATFULL
AN
        1999:102897
TI
        Substance P treatment for immunostimulation
        Witten, Mark L., 7032 E. Rosewood St., Tucson, AZ, United States 85710
IN
        Harris, David T., 4100 N. Alvernon Way, Tucson, AZ, United States
                                                                                  85718
        US 5945508
US 1997-829445
PΙ
                                  19990831
                                  19970328 (8)
ΑI
        US 1996-22063P
PRAI
                              19960723 (60)
DT
        Utility
FS
        Granted
LN.CNT
       815
INCL
        INCLM: 530/327.000
        INCLS: 514/015.000
               530/327.000
NCL
        NCLM:
IC
        [6]
        ICM: A61K038-08
EXF
        514/15; 530/327
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
     ANSWER 109 OF 211
                          USPATFULL on STN
                     USPATFULL
AN
        1999:24526
        Process for induction culture of cytotoxic T lymphocytes having killing
TI
        activity against
                            ***tumor***
                                            cells
       Ohno, Tadao, Ibaraki, Japan
Liu, Shu Qin, Ibaraki, Japan
Todoroki, Takeshi, Ibaraki, Japan
IN
PA
        The Institute of Physical and Chemical Research, Saitama, Japan
        (non-U.S. corporation)
PΙ
        US 5874307
                                  19990223
        US 1995-492585
                                  19950620 (8)
AΙ
        JP 1994-145908
PRAI
                              19940628
        Utility
DT
FS
        Granted
LN.CNT
        560
INCL
        INCLM: 435/372.300
        INCLS: 435/373.000; 435/383.000; 435/325.000; 424/093.710; 424/534.000
NCL
        NCLM:
               435/372.300
        NCLS:
               424/093.710; 424/534.000; 435/325.000; 435/373.000; 435/383.000
IC
        [6]
        ICM: C12N005-08
        ICS: C12N005-00; A61K035-14
        435/373; 435/383; 435/325; 435/372.3; 424/93.71; 424/534
EXF
     ANSWER 110 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation.
L10
                                                                                     on
     STN
AN
      1999:540972 BIOSIS
     PREV199900540972
DN
     Prolongation of survival of mice with glioma treated with semiallogeneic fibroblasts secreting ***interleukin*** - ***2*** .
TI
     Glick, Roberta P. [Reprint author]; Lichtor, Terry; de Zoeten, Edwin; Deshmukh, Praveen; Cohen, Edward P.
AU
     Department of Neurosurgery, Cook County Hospital, 1835 W. Harrison Street,
CS
     Chicago, IL, 60612, USA
     Neurosurgery (Baltimore), (Oct., 1999) Vol. 45, No. 4, pp. 867-874. print. ISSN: 0148-396X.
SO
DT
     Article
LA
     English
     Entered STN: 10 Dec 1999
ED
     Last Updated on STN: 10 Dec 1999
     ANSWER 111 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation.
L10
     STN
     1999:99416
AN
                  BIOSIS
     PREV199900099416
DN
     Effects of OK-432 on the proliferation and cytotoxicity of
TI
      lymphokine-activated killer ( ***LAK*** )
                                                        ***cells***
AU
     Yamamoto, Kiyoshi [Reprint author]; Tanaka, Ryuichi; Yoshida, Seiichi;
     Ono, Koji; Mori, Hiroshi; Taniguchi, Yoshinori; Oda, Tazunu; Watanabe,
      Toru
CS
     Dep. Neurosurg., Brain Res. Inst., Niigata Univ., 1 Asahimachi, Niigata
      951, Japan
     Journal of Immunotherapy, (Jan., 1999) Vol. 22, No. 1, pp. 33-40. print.
SO
DT
     Article
     English
LΑ
ED
     Entered STN: 4 Mar 1999
```

```
L10
                            USPATFULL on STN
      ANSWER 112 OF 211
AN
                       USPATFULL
        1998:147485
                                 ***tumor***
TI
        Method of killing
                                                  cells
        Hill, Albert Fay, Denver, CO, United States
Hill Medical Corporation, La Jolla, CA, United States (U.S. corporation)
US 5840770 19981124
IN
PA
PΙ
        US 1997-790683
ΑI
                                      19970128 (8)
        Continuation of Ser. No. US 1995-426088, filed on 21 Apr 1995, now
RLI
        abandoned which is a continuation-in-part of Ser. No. US 1993-111288,
        filed on 24 Aug 1993, now patented, Pat. No. US 5449522
DT
        Utility
FS:
        Granted
LN.CNT
        1693
INCL
        INCLM: 514/885.000
        INCLS: 424/278.100; 424/722.000; 514/003.000; 514/004.000
NCL
                 514/003.000
        NCLM:
        NCLS:
                 424/278.100; 424/722.000; 514/004.000; 514/023.000
IC
         [6]
        ICM: A61K038-28
        ICS: A61K033-14; A61K045-05
        514/885; 514/883; 514/908; 514/3; 514/4; 514/23; 514/397; 424/568; 424/679; 424/717; 424/722; 424/278.1
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 113 OF 211 USPATFULL on STN
AN
        1998:143642 USPATFULL
TI
        GM-CSF administration for the treatment and prevention of recurrence of
           ***brain***
                              ***tumors***
        Low, Walter C., Shorewood, MN, United States
Wallenfriedman, Margaret A., Edina, MN, United States
Regents of the University of Minnesota, Minneapolis, MN, United States
IN
PA
         (U.S. corporation)
ΡI
        US 5837231
                                     19981117
ΑI
        US 1996-671251
                                     19960627 (8)
        Utility
DT
FS
        Granted
LN.CNT
        496
        INCLM: 424/085.100
INCLS: 424/277.100; 424/093.700; 514/002.000
NCLM: 424/085.100
INCL
NCL
        NCLS:
                 424/093.700; 424/277.100; 514/002.000
IC
         [6]
        ICM: A61K038-19
        ICS: A61K035-12; A61K038-00
EXF
        424/85.1; 424/227.1; 424/93.7; 514/2
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
       ANSWER 114 OF 211
                              BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN
                          BIOTECHNO
AN
       1998:28306213
       New aspects of immunotherapy of leptomeningeal metastasis
Herrlinger U.; Weller M.; Schabet M.
U. Herrlinger, Department of Neurology, University of Tuebingen,
TI
AU
CS
       Hoppe-Seyles-Str. 3, D-72076 Tuebingen, Germany.
       Journal of Neuro-Oncology, (1998), 38/2-3 (233-239), 50 reference(s) CODEN: JNODD2 ISSN: 0167-594X
SO
DT
       Journal; Conference Article
CY
       United States
LA
       English
SL
       English
      ANSWER 115 OF 211
L10
                            USPATFULL on STN
AN
        97:94282
                   USPATFULL
ΤI
        Inhibition of cancer cell growth, proliferation, and metastasis using
        N, N'-d.alpha.,.omega.-diaminoalkanes
IN
        Frydman, Benjamin J., Madison, WI, United States
PA
        Wisconsin Alumni Research Foundation, Madison, WI, United States (U.S.
        corporation)
        US 5677350
US 1995-472431
Utility
PΙ
                                     19971014
AΙ
                                     19950607 (8)
DT
FS
        Granted
LN.CNT
        871
INCL
        INCLM: 514/655.000
NCL
        NCLM:
                 514/655.000
```

```
ICM: A61K031-13
         ICS: A61K031-135
EXF
         514/655
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10
      ANSWER 116 OF 211 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation.
AN
      96:293959
                    SCISEARCH
GA
      The Genuine Article (R) Number: UD966
      EXPRESSION OF COMPLEMENT MEMBRANE REGULATORS MEMBRANE COFACTOR PROTEIN
TI
       (CD46), DECAY-ACCELERATING FACTOR (CD55), AND PROTECTIN (CD59) IN
      HUMAN-MALIGNANT GLIOMAS
MAENPAA A (Reprint); JUNNIKKALA S; HAKULINEN J; TIMONEN T; MERI S
HELSINKI UNIV, DEPT PATHOL, POB 21 HAARTMANINKATU 3, SF-00014 HELSINKI,
FINLAND (Reprint); HELSINKI UNIV, DEPT BACTERIOL & IMMUNOL, SF-00014
AU
CS
      HELSINKI, FINLAND
CYA
      FINLAND
SO
      AMERICAN JOURNAL OF PATHOLOGY, (APR 1996) Vol. 148, No. 4, pp. 1139-1152.
      ISSN: 0002-9440.
      Article; Journal
DT
FS
      LIFE; CLIN
LA
      ENGLISH
REC
      Reference Count: 32
      *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
L10
      ANSWER 117 OF 211 BIOSIS
                                          COPYRIGHT (c) 2005 The Thomson Corporation.
      STN
      1996:126580
                       BIOSIS
AN
DN
      PREV199698698715
      Induction of human autologous cytotoxic T lymphocytes against minced
TI
      tissues of glioblastoma multiforme.
      Tsurushima, Hideo; Liu, Shu Qin; Tsuboi, Koji; Yoshii, Yoshihiko; Nose, Tadao; Ohno, Tadao [Reprint author] RIKEN Cell Bank, 3-1-1 Koyadai, Tsukuba Science City 305, Japan Journal of Neurosurgery, (1996) Vol. 84, No. 2, pp. 258-263. CODEN: JONSAC. ISSN: 0022-3085.
ΑU
CS
SO
DT
      Article
LΑ
      English
      Entered STN: 27 Mar 1996
ED
      Last Updated on STN: 27 Mar 1996
L10
      ANSWER 118 OF 211 ADISCTI COPYRIGHT (C) 2005 Adis Data Information BV on
      STN
AN
      1996:34604
                     ADISCTI
DN
      807103751
      Adoptive immunotherapy using lymphokine-activated killer (
***cells*** and ***interleukin*** - ***2*** for i
TI
                                                                              for recurrent
                                 ***brain***
      malignant primary
                                                      ***tumors***
      Sankhla S K; Nadkarni J S; Bhagwati S N.
ΑU
      SK Sankhla, Royal Preston Hosp, J-5, Staff Village, Sharoe Green Lane, Preston PR2 4HT, Lancs, England.
CS
SO
      Journal of Neuro Oncology (Feb 1, 1996), Vol. 27, pp. 133-140
DT
      Citation
RE
      Cancer Chemotherapy
FS
      Citation
      English
LΑ
L10
        ANSWER 119 OF 211
                                 PASCAL
                                           COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS
        RESERVED. on STN
        1996-0133530
AN
                           PASCAL
        Copyright .COPYRGT. 1996 INIST-CNRS. All rights reserved.
CP
        Adoptive immunotherapy using lymphokine-activated killer (
***cells*** and ***interleukin*** - ***2*** for
                                                                                       ***LAK***
TIEN
                                                                               for recurrent
                                  ***brain***
                                                       ***tumors***
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        Bombay hosp., dep. neurosurgery, Bombay, India
Journal of neuro-oncology, (1996), 27(2), 133-140, 26 refs.
CS
SO
        ISSN: 0167-594X
DT
        Journal; (case report, clinical case)
BL
        Analytic
CY
        Netherlands
LA
        English
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ΑV

INIST-20812, 354000052872980050

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 TI
         Hill, Albert F., 1755 Monaco Pkwy., Denver, CO, United States 80220
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                                      19950912
         US 5449522
 ΑI
                                      19930824 (8)
         US 1993-111288
 DT
         Utility
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         1621
         INCLM: 424/722.000
 INCL
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                 514/397.000
424/722.000
NCL
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                 424/568.000; 424/679.000; 424/717.000; 514/004.000; 514/023.000;
         NCLS:
                 514/397.000
 IC
         [6]
         ICM: A61K033-14
         ICS: A61K035-55
         514/885; 514/4; 514/23; 514/397; ; 424/679; 424/717; 424/722; 424/400;
EXF
         424/568
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       on STN
AN
       95:29942
                  SCISEARCH
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       The Genuine Article (R) Number: PZ268
 TI
       TREATMENT OF EXPERIMENTAL GLIOBLASTOMA WITH A HUMAN MAJOR
       HISTOCOMPATIBILITY COMPLEX NONRESTRICTED CYTOTOXIC T-CELL LINE
· AU
       CESANO A; VISONNEAU S; SANTOLI D (Reprint)
      WISTAR INST ANAT & BIOL, 3601 SPRUCE ST, PHILADELPHIA, PA, 19104
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 CYA
       USA
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       CANCER RESEARCH, (01 JAN 1995) Vol. 55, No. 1, pp. 96-101.
       ISSN: 0008-5472
DT
       Article; Journal
FS
       LIFE; CLIN
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LA
REC
       Reference Count: 40
       *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
      ANSWER 122 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation.
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       1995:159955
                     BIOSIS
       PREV199598174255
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      Effect of
                    ***lymphokine***
                                               ***activated***
                                                                       ***killer***
         ***cells***
                          with or without radiation therapy against malignant
         ***brain***
                             ***tumors***
      Nakagawa, Kunio [Reprint author]; Kamezaki, Takao; Shibata, Yasushi; Tsunoda, Takashi; Meguro, Kotoo; Nose, Tadao
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       Entered STN: 11 Apr 1995
       Last Updated on STN: 11 Apr 1995
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Allen, Jeffrey C. [Reprint author]; Hayes, Roberta
Dep. Neurology, New York Univ. Med. Cent., New York, NY, USA
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       Book
       Book; (Book Chapter)
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       English
 ED
       Entered STN: 30 Mar 1994
       Last Updated on STN: 30 Mar 1994
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AN
      94:601726 SCISEARCH
      The Genuine Article (R) Number: PG915
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TI
      INHIBITION OF
                        ***TUMOR*** -NECROSIS FACTOR-ALPHA AND FACTOR-BETA
                                                ***ACTIVATED***
      SECRETION BY
                        ***LYMPHOKINE*** -
                                                                         ***KILLER***
                       BY TRANSFORMING GROWTH-FACTOR-BETA
        ***CELLS***
      NAGANUMA H (Reprint); SASAKI A; SATOH E; NAGASAKA M; NAKANO S; ISOE S;
AU
     TASAKA K; NUKUI H
YAMANASHI MED UNIV, DEPT NEUROSURG, SHIMOKATO 1110, TAMAHO, YAMANASHI
40938, JAPAN (Reprint); YAMANASHI MED UNIV, DEPT PARASITOL & IMMUNOL,
CS
      TAMAHO, YAMANASHI, JAPAN
CYA
      JAPAN
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      JAPANESE JOURNAL OF CANCER RESEARCH, (SEP 1994) Vol. 85, No. 9, pp.
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FS
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     Reference Count: 34
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      94:151757 SCISEARCH
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GA
      The Genuine Article (R) Number: MY483
      IN-VIVO TRANSFER OF THE HUMAN
                                            ***INTERLEUKIN***
                                                                      ******
TI
                                                                                  GENE -
      NEGATIVE TUMORICIDAL RESULTS IN EXPERIMENTAL
                                                             ***BRAIN***
        ***TUMORS***
      RAM Z (Reprint); WALBRIDGE S; HEISS J D; CULVER K W; BLAESE R M; OLDFIELD
AU
     NINCDS, SURG NEUROL BRANCH, BLDG 10, ROOM 5D-37, 9000 ROCKVILLE PIKE, BETHESDA, MD, 20892 (Reprint); NCI, METAB BRANCH, BETHESDA, MD, 20892
CS
CYA
      USA
      JOURNAL OF NEUROSURGERY, (MAR 1994) Vol. 80, No. 3, pp. 535-540.
SO
      ISSN: 0022-3085.
DT
      Article; Journal
FS
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     Reference Count: 25
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                  BIOSIS
      PREV199598052231
DN
                                                          ***tumors***
      Adoptive immunotherapy of
                                     ***brain***
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     Kikuchi, Tetsuro [Reprint author]; Nakamura, Norio; Abe, Toshiaki; Watanabe, Michiko; Ohno, Tsuneya Dep. Neurosurg., Jikei Univ. Sch. Med., 3-25-8 Nishi-Shinbashi, Minato-Ku,
ΑU
CS
      Tokyo 105, Japan
SO
      Jikeikai Medical Journal, (1994) Vol. 41, No. 3, pp. 317-323.
      CODEN: JMEJAS. ISSN: 0021-6968.
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ĽΑ
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      Entered STN: 25 Jan 1995
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L10
                             DRUGU COPYRIGHT 2005 THE THOMSON CORP on STN
AN
                              T S
       Regional immunotherapy for malignant ***brain*** ***tumo:
Hayes R L; Koslow M; Hiesiger E M; Hochster H; Hymes K; Chen D
TI
                                                                        ***tumors***
ΑU
CS
       Univ.New-York
       New York, New York, United States
LO
       Proc.Am.Assoc.Cancer Res. (35, 85 Meet., 211, 1994)
SO
ΑV
       Department of Neurosurgery, New York University Medical Center, NY, NY
       10016, U.S.A. (8 authors).
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LΑ
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FA
       AB; LA; CT
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SO
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DT
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LА
      Entered STN: 26 Jul 1993
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     Last Updated on STN: 26 Jul 1993
L10
     ANSWER 129 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on
     STN
     1993:457286 BIOSIS
AN
DN
      PREV199396102186
                                               ***lymphokine*** - ***activated***
TI
     Effect of local administration of
        ***killer***
                           ***cells*** and ***interleukin*** - ***2***
                                  ***tumor*** patients.
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     Ibayashi, Yukihiro [Reprint author]; Yamaki, Toshiaki; Kawahara, Takahisa; Daibo, Masahiko; Kubota, Tsukasa; Uede, Teiji; Tanabe, Sumiyoshi; Hashi,
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SO
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     Errata
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     Entered STN: 5 Oct 1993
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L10
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***Interleukin*** - ***2***
       1993-37838 DRUGU
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ΑU
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      New York, New York, United States
LO
      Proc.Am.Soc.Clin.Oncol. (12, 29 Meet., 296, 1993)
New York University Medical Center, NY, NY 10016, U.S.A. (7 authors).
SO
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       English
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       Journal
FA
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FS
      Literature
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       1993:23241930
                         BIOTECHNO
ΝA
TI
       Tolerance and cerebrospinal fluid pharmacokinetics of intrathecally
       administered human natural
                                        ***interleukin*** - ***2*** : A phase I
       trial
ΑU
      Rosener M.; Schwulera U.; Menke G.; Thrun A.; Lissner R.; Krauseneck P.; Bogdahn U.; Martin R.
      Department of Neurology, University of Wurzburg, Josef-Schneider-Str.
CS
       11,97080 Wurzburg, Germany.
European Cytokine Network, (1993), 4/3 (189-195)
SO
       CODEN: ECYNEJ
                       ISSN: 1148-5493
DT
       Journal; Article
CY
       France
LΑ
       English
       English
SL
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L10
       ANSWER 132 OF 211
AN
       1993-36733 DRUGU
                             T S
TI
                             ***Interleukin*** -
                                                      ***2***
                                                                  (IL-2) Lymphokine
       Intraventricular
       Activated Killer ( ***LAK*** ) ***Cells*** for Leptomeningeal Metastases (LM) in Pediatric ***Brain*** ***Tumors***
       Allen J; Hayes R; DaRossa R; Nirenberg A; Moore E; Pierz D
ΑU
LO
       New York, New York, United States
       Proc.Am.Soc.Clin.Oncol. (12, 29 Meet., 183, 1993)
SO
       NYU Medical Center, New York, NY, U.S.A.
ΑV
LА
       English
DT
       Journal
       AB; LA; CT
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THERAPY OF RECURRENT HIGH-GRADE GLIOMAS WITH SURGERY, AND AUTOLOGOUS
MITOGEN ACTIVATED IL-2 STIMULATED KILLER (MAK) LYMPHOCYTES .1. ENHANCEMENT
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Last Updated on STN: 20 Mar 1993

ANSWER 137 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. L10 STN AN 1992:213493 BIOSIS DN PREV199293113718; BA93:113718 CYTOKINE RESPONSES TO INTRAVENTRICULAR INJECTION OF ***INTERLEUKIN*** TI INTO PATIENTS WITH LEPTOMENINGEAL CARCINOMATOSIS RAPID INDUCTION ***TUMOR*** NECROSIS FACTOR ALPHA INTERLEUKIN 1-BETA INTERLEUKIN 6 GAMMA INTERFERON AND SOLUBLE ***INTERLEUKIN*** ***2*** RECEPTOR M-R 55000 PROTEIN. AU LIST J [Reprint author]; MOSER R P; STEUER M; LOUDON W G; BLACKLOCK J B; GRIMM E A CS DEP TUMOR BIOLOGY, BOX 79, UNIVERSITY TEXAS MD ANDERSON CANCER CENTER, HOUSTON, TEX 77030, USA Cancer Research, (1992) Vol. 52, No. 5, pp. 1123-1128. SO CODEN: CNREA8. ISSN: 0008-5472. DT Article FS BALA ENGLISH Entered STN: 4 May 1992 ED Last Updated on STN: 4 May 1992 ANSWER 138 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. L10 on STN 1993:53387 BIOSIS AN DN PREV199395029689 Antitumor activity against established intracerebral gliomas exhibited by TI cytotoxic T lymphocytes, but not by ***lymphokine*** - ***activated***

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 DT
       Conference; (Meeting)
 FS
       BR
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       Entered STN: 5 May 1992
       Last Updated on STN: 5 May 1992
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       STN
 AN
       1992:434685
                    BIOSIS
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       PREV199294086810; BA94:86810
 TI
       CHARACTERIZATION OF IMMOBILIZED ANTI-CD3 ANTIBODY-ACTIVATED T LYMPHOCYTES
       FOR USE IN ADOPTIVE IMMUNOTHERAPY OF PATIENTS WITH
                                                                  ***BRAIN***
         ***TUMORS***
       YAMAZAKI T [Reprint author]; SEKINE T DEP NEUROSURG, SCH MED, TOHO UNIV, 6-11-1 OMORI-NISHI, OTA-KU, TOKYO 143,
 ΑU
 CS
       JPN
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       Neurologia Medico-Chirurgica, (1992) Vol. 32, No. 5, pp. 255-261.
       ISSN: 0387-2572.
       Article
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       Entered STN: 22 Sep 1992
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                      BIOENG
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        Nakagawa, K; Omori, N; Hashimoto, K; Yamamoto, T; Tsunoda, T; Nose, T
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 CS
        305, Japan
        Biotherapy, vol. 4, no. 2, pp. 109-115, 1992 ISSN: 0921-299X
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 DT
        Journal
        English
 LΑ
 SL
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 OS
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        1992:22119397
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                                                            ***tumors***
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        IMMUNOTHERAPIE DES TUMEURS DU SYSEME NERVEUX CENTRAL
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 CS
        Switzerland.
        Neurochirurgie, (1992), 38/2 (69-79)
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 SO
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        Journal; General Review
 CY
        France
 LΑ
        French
 SL
        French; English
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        1992-18274 DRUGU
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                              Р
        ***Brain*** ***Tumor*** Treatments: Systemic Cyclophosphamide Alone or with Local Adoptive Transfer of ***Lymphokine***
                            ***Tumor***
 TI
          ***Activated***
                                ***Killer***
                                                    ***Cells*** , Derived from Norma:
        or from Cyclophosphamide-Treated Rats.
 ΑU
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 LO
        Denver, Colorado, United States
 SO
        Clin.Res. (40, No. 1, 63A, 1992) 1 Tab.
        CODEN: CLREAS
                              ISSN:
                                      0009-9279
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        Univ. of Colorado Health Sci. Ctr., Denver, CO, U.S.A. (8 authors).
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        English
 DT
        Journal
        AB; LA; CT
 FA
 FS
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 AN
       93688608
                      CANCERLIT
       93688608
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SO
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     Institute for Cell and Developmental Biology
EΜ
     199305
     Entered STN: 19941107
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     ANSWER 147 OF 211 CANCERLIT on STN
L10
AN
     92678787
                   CANCERLIT
DN
     92678787
     BIOLOGIC RESPONSE TO INTRACAVITARY
                                             ***INTERLEUKIN***
TI
                                                                      *****
     /LYMPHOKINE ACTIVATED KILLER ( ***LAK*** )
                                                         ***CELLS***
                                                                        IN THE
     TREATMENT OF PRIMARY MALIGNANT
                                        ***BRAIN***
                                                          ***TUMORS***
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ΑU
     Dept. of Neurosurgery, New York Univ. Medical Center, 550 First Ave., New York, NY 10016.
CS
SO
     Dev Oncol, (1991) 66 225-7.
     Book; (MONOGRAPH)
DT .
     (CLINICAL TRIAL)
LА
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FS
     Institute for Cell and Developmental Biology
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     Last Updated on STN: 19970509
     ANSWER 148 OF 211 CANCERLIT on STN
L10
AN
     91676346
                   CANCERLIT
DN
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ΑU
     Mcvicar D W
CS
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SO
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LΑ
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FS
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     Entered STN: 19941107
     Last Updated on STN: 19970509
L10
     ANSWER 149 OF 211 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation.
     on STN
AN
     91:255168
                 SCISEARCH
GΑ
     The Genuine Article (R) Number: FJ821
                                                ***TUMOR*** -INFILTRATING
     PHENOTYPE AND FUNCTIONAL-ACTIVITY OF
TI
     LYMPHOCYTES ISOLATED FROM IMMUNOGENIC AND NONIMMUNOGENIC RAT- ***BRAIN***
       ***TUMORS***
ΑU
     TZENG J J; BARTH R F (Reprint); OROSZ C G; JAMES S M
     OHIO STATE UNIV, DEPT PATHOL, COLUMBUS, OH, 43210; OHIO STATE UNIV, DEPT
CS
     SURG, COLUMBUS, OH, 43210
CYA
     USA
SO
     CANCER RESEARCH, (1991) Vol. 51, No. 9, pp. 2373-2378.
DT
     Article; Journal
FS
     LIFE
     ENGLISH
T.A
REC
     Reference Count: 49
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
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GA
     The Genuine Article (R) Number: GF677
     MODULATION OF T-CELL FUNCTION BY GLIOMAS
ROSZMAN T (Reprint); ELLIOTT L; BROOKS W
UNIV KENTUCKY, MED CTR, DEPT MICROBIOL & IMMUNOL, LEXINGTON, KY, 40536
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CS
     (Reprint)
CYA
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     IMMUNOLOGY TODAY, (1991) Vol. 12, No. 10, pp. 370-374.
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- AN91:302678 SCISEARCH
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- The Genuine Article (R) Number: FL932
 THERAPY OF RECURRENT HIGH-GRADE GLIOMAS WITH SURGERY, AUTOLOGOUS TI MITOGEN-ACTIVATED IL-2-STIMULATED (MAK) KILLER LYMPHOCYTES, AND RIL-2 .2. CORRELATION OF SURVIVAL WITH MAK CELL ***TUMOR*** -NECROSIS-FACTOR PRODUCTION INVITRO
- ΑU JEFFES E W B (Reprint); BEAMER Y B; JACQUES S; COSS J S; NEP R L; BECKMAN M; YAMAMOTO R S; GRANGER G
- UNIV CALIF IRVINE, DEPT MOLEC BIOL & BIOCHEM, IRVINE, CA, 92717 (Reprint); UNIV CALIF IRVINE, DEPT DERMATOL, IRVINE, CA, 92717; VET ADM MED CTR, DEPT DERMATOL, LONG BEACH, CA, 90822; HLTHCARE MED CTR, TUSTIN, CA, 92681; MEM CANC INST, LONG BEACH, CA, 90801 CS
- CYA
- SO LYMPHOKINE AND CYTOKINE RESEARCH, (1991) Vol. 10, No. 1-2, pp. 89-94.
- DTArticle; Journal
- FS LIFE
- ENGLISH LΑ
- REC Reference Count: 21 *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
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- PREV199191121124; BA91:121124 DN
- COMPARISON OF LYMPHOKINE-ACTIVATED KILLER ACTIVITIES BETWEEN THYMOCYTES TI AND SPLENOCYTES IN RATS WITH ***BRAIN*** ***TUMORS***
- AU MATSUURA H [Reprint author]; IMAYA H
- CS SAITAMA NEUROSŪRGICAL INST, 664-1 KAMIYA KOHNOSU-SHI, SAITAMA-KEN 365, JAPAN
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- GΑ The Genuine Article (R) Number: FJ152
- IMMUNOTHERAPY OF GLIOBLASTOMA WITH INTRATUMORAL ADMINISTRATION OF TI AUTOLOGOUS LYMPHOCYTES AND HUMAN LYMPHOBLASTOID INTERFERON - A FURTHER CLINICAL-STUDY
- ΑU VAQUERO J (Reprint); MARTINEZ R; RAMIRO J; SALAZAR F G; BARBOLLA L; REGIDOR C
- AUTONOMOUS UNIV MADRID, PUERTA HIERRO CLIN, DEPT NEUROSURG, MADRID, SPAIN; CS AUTONOMOUS UNIV MADRID, PUERTA HIERRO CLIN, DEPT HEMATOL, MADRID, SPAIN; HOSP GREGORIO MARANON, MADRID, SPAIN
- CYA SPAIN
- SO ACTA NEUROCHIRURGICA, (1991) Vol. 109, No. 1-2, pp. 42-45.
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- FS CLIN
- LA **ENGLISH**
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 LILLEHEI K O [Reprint author]; MITCHELL D H; JOHNSON S D; MCCLEARY E L; TI
- AU KRUSE C A
- CS DENVER BRAIN TUMOR RESEARCH GROUP, NEUROSURG DIV UNIV COLORADO HEALTH SCI CENTER, ST JOSEPH HOSP, DENVER, CÓLO, USA
- Neurosurgery (Baltimore), (1991) Vol. 28, No. 1, pp. 16-23. SO

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     Learning Company; All Rights Reserved on STN 90:25395 DISSABS Order Number: AAR9107163
     90:25395 DISSABS Order Number: AAR9107163
DIFFERENTIAL EFFECTS OF CORTICOSTEROIDS AND GLIOMA ON CELLULAR
AN
ΤI
     CYTOTOXICITY AND T-LYMPHOCYTE ACTIVATION (CYTOTOXICITY)
     MCVICAR, DANIEL WALTER [PH.D.]; MERCHANT, RANDALL E. [advisor]
AU
     VIRGINIA COMMONWEALTH UNIVERSITY (2383)
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       90:13026
                 USPATFULL
       Implantable immunotherapy system using stimulated cells
TI
IN
       Ingram, Marylou, 371 Patriclan Way, Pasadena, CA, United States 91105
PI
       US 4902288
                                 19900220
       US 1985-804068
ΑI
                                 19851203 (6)
DT
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FS
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LN.CNT 451
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       NCLS:
               424/085.100; 424/093.710; 424/423.000; 424/534.000; 604/890.100
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        [4]
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       ICS: A61K035-12
EXF
       424/95; 424/85.1; 424/85.8; 435/240.2; 604/891.1
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                          JICST-EPlus COPYRIGHT 2005 JST on STN
     910079001 JICST-EPlus
ΑN
ΤI
     Current studies on LAK therapy
     NAKAMURA HIROHIKO; TAKAKURA KINTOMO
ΑU
     Univ. of Tokyo, Faculty of Medicine
CS
     Biotherapy (Tokyo), (1990) vol. 4, no. 10, pp. 1627-1636. Journal Code: L0028A (Fig. 5, Tbl. 3, Ref. 38)
SO
     ISSN: 0914-2223
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     Journal; General Review
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     ANSWER 158 OF 211 ADISCTI COPYRIGHT (C) 2005 Adis Data Information BV on
L10
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AN
     1990:39406
                 ADISCTI
DN
     800042309
                                         ***brain***
                                                          ***tumors***
TI
     Intralesional immunotherapy of
                                                                          with
     combined Corynebacterium parvum and recombinant
                                                           ***interleukin***
       ***2***
                  in mice.
     ADIS TITLE: Corynebacterium parvum + ***interleukin***
                                                                       ***2***
     pharmacodynamics.
     Intralesional immunotherapy of brain tumours
     Animal studies
AU
     Conley F K; Adler Jr J R; Duncan J A; et al.
     Stanford University School of Medicine, Stanford, California, USA; Palo
CS
     Alto Veterans Administration Medical Center, Palo Alto, California, USA.
SO
     Journal of the National Cancer Institute (Aug 15, 1990), Vol. 82, pp.
     1340-1344
DT
     Study
     Oncology
RE
FS
     Summary
LΑ
     English
WC
     260
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     ANSWER 159 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation.
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AN
                  BIOSIS
DN
     PREV199090113272; BA90:113272
     ADOPTIVE IMMUNOTHERAPY AGAINST
                                          ***BRAIN***
                                                            ***TUMORS***
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     KIKUCHI T [Reprint author]; SAKAI H; NAKAMURA N; MOROOKA S; KANDA R;
AU
     WATANABE M; OHNO T
     DEP NEUROSURGERY, JIKEI UNIVERSITY SCH MED, JAPAN
CS
     Tokyo Jikeikai Medical Journal, (1990) Vol. 105, No. 4, pp. 527-534.
SO
     CODEN: TJIDAH. ISSN: 0375-9172.
DT
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FS
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LΑ
     JAPANESE
     Entered STN: 25 Oct 1990
ED
     Last Updated on STN: 25 Oct 1990
                          JICST-EPlus COPYRIGHT 2005 JST on STN
L10
     ANSWER 160 OF 211
                 JICST-EPlus
AN
     900394678
                                                                              ***LAK***
                                                           injection with
     Adoptive immunotherapy by intra-
TI
                                          ***tumor***
        ***cells***
AU
     OGAMI KAZUO; KOMATSU FUMIO
    Tokyo Medical and Dental Univ., Faculty of Medicine
Biotherapy (Tokyo), (1990) vol. 4, no. 3, pp. 516-519. Journal Code:
L0028A (Fig. 2, Tbl. 1, Ref. 6)
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     ISSN: 0914-2223
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DT
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LΑ
     Japanese
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     STN
AN
     1990:241495 BIOSIS
     PREV199089128448; BA89:128448
DN
     DAMAGE TO MULTICELLULAR HUMAN H-2 GLIOMA SPHEROIDS INCUBATED WITH
TI
        ***<u>LAK</u>***
                       ***CELLS***
                                     AN ULTRASTRUCTURAL STUDY.
     JAASKELAINEN J [Reprint author]; LEHTONEN E; HEIKKILA P; KALLIOMAKI P;
AU
     TIMONEN T
     DEP NEUROSURG, TOOLO HOSP, TOPELIUKSENKATU 5, 00260 HELSINKI, FINLAND
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     Journal of the National Cancer Institute (Bethesda), (1990) Vol. 82, No.
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     Entered STN: 19 May 1990
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     Last Updated on STN: 19 May 1990
     ANSWER 162 OF 211 JICST-EPlus COPYRIGHT 2005 JST on STN
L10
     900394670 JICST-EPlus
ΑN
TI
                                                                  ***lymphokine***
     Long-term follow-up of adoptive immuno therapy with
                             ***killer***
                                                 ***cells***
                                                                 for malignant
        ***activated***
        ***brain***
                         ***tumors***
     SHIMIZU KEIJI; PARK K C; YAMADA MASANOBU; TAMURA KAZUYOSHI; MATSUI YUTAKA; OKAMOTO YUTAKA; MOGAMI HEITARO
ΑU
     Osaka Univ., Medical School
Biotherapy (Tokyo), (1990) vol. 4, no. 3, pp. 478-482. Journal Code:
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     ISSN: 0914-2223 -
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     Journal; Short Communication
LA
     Japanese
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     New
     ANSWER 163 OF 211 JICST-EPlus COPYRIGHT 2005 JST on STN
L10
                 JICST-EPlus
AN
     900394665
ΤI
     Effects of cytokines and drugs on lymphokine-activated killer(LAK) cell
     generation in patients with malignant glioma.
     ŇAKAMURA HIROHÌKO; SHITARA NOBUYŬKI; HŬANG S H; TAKAKURA KINTOMO
ΑU
     Univ. of Tokyo, Faculty of Medicine
CS
     Biotherapy (Tokyo), (1990) vol. 4, no. 3, pp. 452-457. Journal Code: L0028A (Tbl. 5, Ref. 19)
SO
     ISSN: 0914-2223
CY
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     Journal; Short Communication
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ANSWER 164 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation.
L10
     STN
AN
     1990:428519 BIOSIS
     PREV199090089320; BA90:89320
DN
     ANALYSIS OF LOCAL IMMUNORESPONSES IN LOCAL APPLICATION OF VARIOUS EFFECTOR
TI
                        ***BRAIN***
     CELLS IN A RAT
                                       ***TUMOR***
                                                         MODEL.
     KAWAHARA T [Reprint author]
AU
     DEP NEUROSURG, SAPPORO MED COLL
CS
     Sapporo Medical Journal, (1990) Vol. 59, No. 3, pp. 201-214.
SO
     CODEN: SIZSAR. ISSN: 0036-472X.
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     JAPANESE
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     Entered STN: 22 Sep 1990
     Last Updated on STN: 22 Sep 1990
L10
     ANSWER 165 OF 211 JICST-EPlus COPYRIGHT 2005 JST on STN
     900114658 JICST-EPlus
AN
     Adoptive immunotherapy using ***LAK***
TI
                                                         ***cells***
                                                                         for patients
                               ***tumors***
             ***brain***
     with
     SHIMIZU KEISHI
ΑU
     Osaka Univ., Medical School
Brain Nurs, (1990) vol. 6, no. 1, pp. 82-88. Journal Code: X0104A (Fig. 1,
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ISSN: 0910-8459
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     Journal; Commentary
LΑ
     Japanese
STA
     New
     ANSWER 166 OF 211 JICST-EPlus COPYRIGHT 2005 JST on STN 900630537 JICST-EPlus
L10
AN
     Adoptive immunotherapy in patients with ***brain***
intra- ***tumor*** injection with ***LAK***
                                                                        ***tumor***
                                                                                        by
ΤI
                                                                 ***cells***
     KOMATSU FUMIO; OGAMI KAZŬO
AU
CS
     Tokyo Medical and Dental Univ.
     Nippon Yuketsu Gakkai Zasshi (Journal of the Japan Society of Blood
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     Transfusion), (1990) vol. 36, no. 1, pp. 63-67. Journal Code: Z0301B (Fig.
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     ISSN: 0546-1448
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        89:40735 USPATFULL
\mathbf{A}\mathbf{N}
                                     ***interleukin*** - ***2***
TI
        Method for administering
        Anderson, Mark E., 21 Southampton Ct., Newport Beach, CA, United States
IN
        92660
ΡI
        US 4832686
                                   19890523
        US 1986-878026
AΙ
                                   19860624 (6)
        Utility
DT
        Granted
FS
LN.CNT
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INCL
        INCLM: 604/049.000
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                424/497.000; 514/885.000; 514/965.000; 604/891.100
        NCLM:
NCL
                604/500.000
                264/004.600; 424/085.200; 424/426.000; 424/463.000; 424/486.000; 424/487.000; 514/885.000; 514/965.000; 604/891.100
        NCLS:
        [4]
IC
        ICM: A61K009-22
        ICS: A61K009-26; A61M031-00
EXF
        604/891; 604/891.1; 604/49; 424/85; 424/426; 424/463; 424/486; 424/497;
        424/85.2; 514/885; 514/965
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
      1990:199703 BIOSIS
     PREV199089106374; BA89:106374
HIGH YIELDING CULTURE OF ***LAK*** ***CELLS*** BY THE
CONCENTRATION ROTARY TISSUE CULTURE SYSTEM AND ITS CLINICAL APPLICATION.
DN
TI
     PARK K-C [Reprint author]; SHIMIZU K; TAMARA K; YAMADA M; MATSUI Y;
ΑU
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DEP NEUROSURG, OSAKA UNIV MED SCH CS Journal of Japan Society for Cancer Therapy, (1989) Vol. 24, No. 10, pp. SO 2349-2354. CODEN: NGCJAK. ISSN: 0021-4671. DT Article FS BA LA **JAPANESE** Entered STN: 24 Apr 1990 ED Last Updated on STN: 24 Apr 1990 ANSWER 169 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on L10 STN AN 1989:516777 BIOSIS PREV198988132920; BA88:132920
INTERLEUKIN - ***2** DN - ***2*** ***BRAIN*** TI -ACTIVATED LYMPHOCYTES FROM PATIENTS A COMPARISON OF TWO PREPARATIONS GENERATED ***TUMOR*** IN-VITRO AU KRUSE C A [Reprint author]; MITCHELL D H; LILLEHEI K O; JOHNSON S D; MCCLEARY E L; MOORE G E; WALDROP S; MIERAU G W
DENVER BRAIN TUMOR RES GROUP, UNIV COLO HEALTH SCI CENT, DIV NEUROSURG,
BOX C307, 4200 E NINTH AVE, DENVER, COLO 80262, USA
Cancer, (1989) Vol. 64, No. 8, pp. 1629-1637.
CODEN: CANCAR. ISSN: 0008-543X. CS SO DT Article FS BA ENGLISH LA Entered STN: 15 Nov 1989 ED Last Updated on STN: 15 Nov 1989 ANSWER 170 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on L10 STN AN1990:71966 BIOSIS PREV199089039792; BA89:39792 DNADOPTIVE IMMUNOTHERAPY FOR PATIENTS WITH MEDULLOBLASTOMA BY ***LAK*** TI ***CELLS*** ΑU SHIMIZU K [Reprint author]; TAMURA K; YAMADA M; OKAMOTO Y; MIYAO Y; PARK K; MATSUI Y; HAYAKAWA T; TAKIMOTO H; MOGAMI H DEP NEUROSURGERY, OSAKA UNIV MED SCH, 1-1-50 FUKUSHIMA, FUKUSHIMA-KU, CS OSAKA, JPN SO Brain and Nerve (Tokyo), (1989) Vol. 41, No. 10, pp. 991-995. CODEN: NOTOA6. ISSN: 0006-8969. DT Article · FS BA **JAPANESE** LΑ ED Entered STN: 23 Jan 1990 Last Updated on STN: 23 Jan 1990 ANSWER 171 OF 211 JICST-EPlus COPYRIGHT 2005 JST on STN L10 900071956 JICST-EPlus $\mathbf{A}\mathbf{N}$ Adoptive immunotherapy for three cases with medulloblastoma. PARK K; SHIMIZU KEIJI; OKAMOTO YUTAKA; TAMURA KAZUYOSHI TSUDA NOBUYUKI; MASAKI SHIN; MIZUTA TADAHISA; IWATA YOSHIKAZU TI ΑU TAKIMOTO HIROSHI CS Osaka Univ. Suita City Hospital Minoo City Hospital Shoni no Noshinkei (Nervous System in Children), (1989) vol. 14, no. 5, SO pp. 387-392. Journal Code: G0347B (Fig. 7, Ref. 16) ĪSSN: 0387-8023 CY Japan DT Journal; Article Japanese LΑ STA New ANSWER 172 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. L10 STN 1989:396904 BIOSIS ANPREV198937063552; BR37:63552 DN ANTITUMOR CYTOTOXICITY AND OTHER BIOLOGIC PROPERTIES OF HUMAN ADHERENT TI ***CELLS*** LYMPHOKINE-ACTIVATED KILLER A-***LAK*** SCHWARZ R E [Reprint author]; MEIDER R J; WANG Y L; ELDER E; HERBERMAN R B; WHITESIDE T L AU

PITTSB CANCER INST, PITTSBURGH, PA 15213, USA Proceedings of the American Association for Cancer Research Annual

Meeting, (1989) Vol. 30, pp. 370.

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      ISSN: 0197-016X.
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     Conference; (Meeting)
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     Entered STN: 22 Aug 1989
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     Last Updated on STN: 22 Aug 1989
     ANSWER 173 OF 211 CANCERLIT on STN
L10
     89310715
                    CANCERLIT
ΑN
DN
     89310715
                  PubMed ID: 2664096
      Immunomagnetic separation of infiltrating T lymphocytes from
                                                                              ***brain***
TI
        ***tumors***
AU
     Bosnes V; Hirschberg H
     Institute of Transplantation Immunology, National Hospital, Oslo, Norway. JOURNAL OF NEUROSURGERY, (1989 Aug) 71 (2) 218-23.
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     Journal code: 0253357. ISSN: 0022-3085.
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     United States
     Journal; Article; (JOURNAL ARTICLE)
DT
LΑ
     English
     MEĎLINE; Abridged Index Medicus Journals; Priority Journals MEDLINE 89310715
FS
OS
EM
     198908
ED
     Entered STN: 19941107
     Last Updated on STN: 19941107
     ANSWER 174 OF 211 JICST-EPlus COPYRIGHT 2005 JST on STN
L10
     890238611 JICST-EPlus
AN
     The basis and clinical application of adoptive immunotherapy for malignant ***brain*** ***tumors*** : Induction of lymphokineactivated killer ***LAK*** ) ***cells*** and difficulties in LAK therapy.
TI
     NAKAMURA HIROHIKO; SHITARA NOBUYUKI; WADA TERUMI; TAKAKURA KIMITOMO
ΑU
     Univ. of Tokyo, Faculty of Medicine
CS
     Biotherapy (Tokyo), (1989) vol. 3, no. 1, pp. 175-178. Journal Code:
SO
     L0028A (Fig. 4, Tbl. 1, Ref. 9)
      ISSN: 0914-2223
CY
     Japan
DT
     Journal; Article
LΑ
     Japanese
STA
     New
L10
     ANSWER 175 OF 211
                           JICST-EPlus COPYRIGHT 2005 JST on STN
     890238600 JICST-EPlus
AN
     Adoptive immunotherapy for the ***LAK*** ***cells*** i
                                           ***brain***
TI
                                                              ***tumor***
                                                                              patients by
                                       induced with the concentration rotary tissue
      culture system.
     SHIMIZU KĖIJI; TAMURA KAZUYOSHI; PARK KAECHANG; MATSUI YUTAKA; YAMADA
AU
     MASANOBU; OKAMOTO YUTAKA; MABUCHI EIICHIRO; HAYAKAWA TORU; MOGAMI HEITARO
     Osaka Univ., Medical School
Biotherapy (Tokyo), (1989) vol. 3, no. 1, pp. 108-112. Journal Code:
L0028A (Fig. 3, Tbl. 1, Ref. 8)
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AN
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DN
                      ***LAK***
                                       ***CELLS***
TI
      INDUCTION OF
                                                       AND CTL OF PATIENTS WITH
        ***BRAIN***
                          ***TUMOR***
                                          AND RESEARCH OF ITS CLINICAL APPLICATION.
AU
     MORIKI A [Reprint author]
     DEP NEUROSURG, KOCHI MED SCH, KOHASU, OKOH-CHO, NANKOKU, KOICHI 781-51,
CS
      JPN
SO
     Archiv fuer Japanische Chirurgie, (1989) Vol. 58, No. 1, pp. 107-118.
      CODEN: NIGHAE. ISSN: 0003-9152.
     Article
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      JAPANESE
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ED
      Entered STN: 19 Sep 1989
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Last Updated on STN: 19 Sep 1989

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TI
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AU
      Anonymous
      No affiliation given.
CS
      Cancer Chemother Biol Response Modif, (1988) 10 1-594.
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      ISSN: 0921-4410.
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      Book; (MONOGRAPH)
LΑ
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FS
      Institute for Cell and Developmental Biology
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      198911
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      Last Updated on STN: 19941107
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L10
                                                                                           on
      STN
AN
      1989:30739 BIOSIS
      PREV198987018739; BA87:18739
DN
      IN-VITRO GENERATION AND ANTITUMOR ACTIVITY OF ADHERENT
                                                                         ***LYMPHOKINE***
TI
                                                     ***CELLS***
         ***ACTIVATED***
                                ***KILLER***
                                                                     FROM THE BLOOD OF
      PATIENTS WITH
                       ***BRAIN***
                                           ***TUMORS***
     WHITESIDE T L [Reprint author]; WANG Y L; SELKER R G; HERBERMAN R B ONE CHILDREN'S PLACE, ROOM 5725, 3705 FIFTH AVE AT DESOTO ST, PITTSBURGH,
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      PA 15213-3417, USA
      Cancer Research, (1988) Vol. 48, No. 21, pp. 6069-6075.
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     ANSWER 179 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on
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      LOCAL ADMINISTRATION OF AUTOLOGOUS
                                                 ***LYMPHOKINE***
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TI
        ***KILLER***
                            ***CELLS***
                                            AND RECOMBINANT
                                                                ***INTERLEUKIN***
                    TO PATIENTS WITH MALIGNANT
                                                     ***BRAIN***
     YOSHIDA S [Reprint author]; TANAKA R; TAKAI N; ONO K
DEP NEUROSURG, BRAIN RES INST, NIIGATA UNIV, NIIGATA 951, JPN
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      IN-VIVO AND IN-VITRO EFFECT OF ADOPTIVE IMMUNOTHERAPY OF EXPERIMENTAL
TI
                                   ***TUMORS***
                ***BRAIN***
                                                              ***LYMPHOKINE***
                                                    USING
                               ***KILLER***
        ***ACTIVATED***
                                                    ***CELLS***
     TAKAI N [Reprint author]; TANAKA R; YOSHIDA S; HARA N; SAITO T DEP NEUROSURG, BRAIN RES INST, NIIGATA UNIV, NIIGATA 951, JPN Cancer Research, (1988) Vol. 48, No. 8, pp. 2047-2052.
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       Department of Neurosurgery, Kyoto University, Sakyo-ku, Kyoto 606, Japan. Journal of Neurosurgery, (1988), 69/5 (751-759)
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      INTRALESIONAL INFUSION OF LYMPHOKINE-ACTIVATED KILLER
                                                                       ***LAK***
TI
        ***CELLS***
                        AND RECOMBINANT
                                             ***INTERLEUKIN*** -
                                                                       ***2***
                                                                                  RIL-2 FO
                                                                          ***TUMOR***
      THE TREATMENT OF PATIENTS WITH MALIGNANT
                                                       ***BRAIN***
     MERCHANT R E [Reprint author]; MERCHANT L H; COOK S H S; MCVICAR D W;
AU
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      VA COMMONWEALTH UNIV, MED COLL VA, DEP ANATOMY, MCV STATION, BOX 709,
     RICHMOND, VA 23298-0709, USA
     Neurosurgery (Baltimore), (1988) Vol. 23, No. 6, pp. 725-732.
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     PREV198886105024; BA86:105024
     STUDY ON ADOPTIVE IMMUNOTHERAPY FOR THE EXPERIMENTAL
ΤI
                                                                      ***BRAIN***
        ***TUMOR***
     TAKAI N [Reprint author]
DEP NEUROSURGERY, BRAIN RES INST, NIIGATA UNIV, 1-757 ASAHIMACHI-DORI,
CS
     NIIGATA 951, JAPAN
     Brain and Nerve (Tokyo), (1988) Vol. 40, No. 7, pp. 689-695. CODEN: NOTOA6. ISSN: 0006-8969.
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     1989:5959 CAPLUS
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      factor beta2 inhibits the generation of lymphokine-activated killer (
        ***LAK***
                         ***cells***
     Kuppner, Maria C.; Hamou, Marie France; Bodmer, Stefan; Fontana, Adriano;
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     De Tribolet, Nicolas
     Neurosurg. Dep., Cent. Hosp. Univ. Vaudois, Lausanne, CH-1011, Switz. International Journal of Cancer (1988), 42(4), 562-7 CODEN: IJCNAW; ISSN: 0020-7136
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AN
      89657439
DN
      89657439
     ADOPTIVE CELLULAR THERAPY.
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     Journal; Article; (JOURNAL ARTICLE)
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      (REVIEW, TUTORIAL)
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                  PubMed ID: 2854899
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89265804

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***killer***
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                                           of malignant ***brain***
                                                                              ***tumor**:
AU
     Itoh K; Sawamura Y; Hosokawa M; Kobayashi H
CS
     Department of Nuclear Medicine, School of Medicine, Hokkaido University,
     Japan.
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     RADIATION MEDICINE, (1988 Nov-Dec) 6 (6) 276-81.
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     ANSWER 187 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on
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     PREV198886006208; BA86:6208
OBSERVATIONS ON THE LOCAL ADMINISTRATION OF AUTOLOGOUS
DN
TI
                                                                      ***LYMPHOKINE***
        ***ACTIVATED***
                              ***KILLER***
                                                 ***CELLS***
                                                                 AND RECOMBINANT
                               ***2*** TO PATIENTS WITH MALIGNANT GLIOMAS.
        ***INTERLEUKIN***
     YOSHIDA S [Reprint author]; TAKAI N; ONO K; SAITO T; TANAKA R
DEP NEUROSURGERY, BRAIN RES INST, NIIGATA UNIV, 1 ASAHIMACHI-DORI, NIIGATA
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     Brain and Nerve (Tokyo), (1988) Vol. 40, No. 2, pp. 119-125.
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                           DRUGU COPYRIGHT 2005 THE THOMSON CORP on STN
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AN
                             Т
TI
      Clinical Applications of rIL-2 and
                                               ***LAK***
                                                                ***Cells***
                                                                                in
                       ***Brain***
                                          ***Tumors***
      Patients with
      Shumizu K; Tamura K; Okamoto Y; Miyao; Y; Yamada M; Matsui Y
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      Osaka, Japan
      Int.J.Immunopharmacol. (10, Suppl. 1 CODEN: IJIMDS ISSN: 0192-0561
SO
                                              1, 103, 1988)
      Department of Neurosurgery, Osaka University Medical School, Osaka,
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      Japan. (8 authors).
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                           DRUGU COPYRIGHT 2005 THE THOMSON CORP on STN
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                             T S
AN
      1990-17645
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                                                       ***Brain***
                                                                         ***Tumors***
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      Barba D; Oldfield E H; Saris S C; Rosenberg S A; Hamilton J M
      Bethesda, Maryland, United States
Proc.Am.Soc.Clin.Oncol. (7, 24 Meet., 82, 1988)
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SO
      NINCDS and NCI, National Institutes of Health, Bethesda, Maryland, U.S.A.
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     ANSWER 190 OF 211 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation.
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     SPECIFIC CYTOTOXIC ACTIVITY OF T LYMPHOCYTE CLONES DERIVED FROM A PATIENT
     WITH GLIOSARCOMA IMMUNOMODULATORY EFFECT OF INTERFERONS ON
                                                                           ***TUMOR***
     -ASSOCIATED ANTIGEN.
     MIYATAKE S-I [Reprint author]
DEP NEUROSURGERY, FAC MED, KYOTO UNIV, SAKYO-KU, KYOTO 606, JAPAN
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     Archiv fuer Japanische Chirurgie, (1988) Vol. 57, No. 1, pp. 55-68. CODEN: NIGHAE. ISSN: 0003-9152.
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                             DRUGU COPYRIGHT 2005 THE THOMSON CORP on STN
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                              T P
                                                         ***LAK***
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                                                                          ***Cells***
                                                                                          by
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Int.J.Immunopharmacol. (10, Suppl. 1, 50, 1988)
CODEN: IJIMDS ISSN: 0192-0561
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       Department of Neurosurgery, Osaka University Medical School, Osaka,
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      88645097
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ΑU
      Anonymous
      No affiliation given.
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                  (1987) 52 353-448.
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      Book; (MONOGRAPH)
DT
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      Institute for Cell and Developmental Biology
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      Efficacy of interferon-beta and
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                                                                        ***2***
                                                                                    as
                                    ***brain***
                                                        ***tumor***
      cytokines for malignant
     Shitara N; Nakamura H; Genka S; Takakura K
Dept. of Neurosurgery, University of Tokyo.
GAN TO KAGAKU RYOHO [JAPANESE JOURNAL OF CANCER AND CHEMOTHERAPY], (1987
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Tournal code: 7810034 TSSN: 0385-0684
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      Journal code: 7810034. ISSN: 0385-0684.
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      Journal; Article; (JOURNAL ARTICLE)
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      Distribution of limphokine-activated killer cells in the cerebrospinal
      space. Assessment of indium-111-labeled LAK cell scintigram.
AU
      MĪYAO YASUYOSHI; SHIMIZU KEIJI; ISAKA YOSHINARI; OKAMOTŌ YUTAKA; YAMADA
      MASANOBU; KIMURA KAZUFUMI; IKEDA TAKUYA; MOGAMI HEITARO
      Osaka Univ., Medical School
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SO
CY
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      Journal; Short Communication
DT
      Japanese
LA
STA
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      PREV198885071905; BA85:71905
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      EFFECTS OF PHENYTOIN ON CELL-MEDIATED IMMUNITY.
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      OKAMOTO Y [Reprint author]; SHIMIZU K; TAMURA K; MIYAO Y; YAMADA M; MATSUI Y; TSUDA N; MOGAMI H
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     Entered STN: 12 Mar 1988
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     ADOPTIVE IMMUNOTHERAPY FOR THE EXPERIMENTAL
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                                                                          ***TUMOR***
     IN RATS INDUCTION OF
                              ***LAK***
                                              ***CELLS***
                                                             AND THEIR BIOLOGICAL
     CHARACTERISTIC.
     TAKAI N [Reprint author]; TANAKA R; YOSHIDA S; HARA N; SAITO T DEP NEUROSURG, BRAIN RES INST, NIIGATA UNIV, 1-757 ASAHIMACHI-DORI,
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     Entered STN: 23 Feb 1988
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     ANSWER 197 OF 211 JICST-EPlus COPYRIGHT 2005 JST on STN
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AN
TI
     Adoptive transfer of allogeneic
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                                                                         into a
     patients with medulloblastoma.
OKAMOTO YUTAKA; SHIMIZU KEIJI; MIYAO YASUYOSHI; YAMADA MASANOBU; TAMURA
AU
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     HASHIMOTO MITSUO
CS
     Osakadai I
     Hyoqokennishinomiyabyoin
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     vol. 140, no. 11, pp. 833-834. Journal Code: Z0649A (Fig. 1, Tbl. 1, Ref.
     CODEN: IGAYAY; ISSN: 0039-2359
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DT
     Journal; Short Communication
LΑ
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STA
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     880045537 JICST-EPlus
\mathbf{A}\mathbf{N}
TI
     Adoptive transfer of lymphokine-activated killer( ***LAK***
                     and recombinant ***interleukin*** - ***2***
        ***cells***
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     into 5 patients with meningeal dissemination from malignant
                                                                        ***tumors***
ΑU
     OKAMOTO YUTAKA; SHIMIZU KEIJI; MIYAO YASUYOSHI; YAMADA MASANOBU; TAMURA
     KAZUYOSHI; MATSUI YUTAKA; TSUDA NOBUYUKI; MOGAMI HEITARO
CS
     Osaka Univ., Medical School
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     Rinsho Men'eki (Clinical Immunology), (1987) vol. 19, no. 8, pp. 687-694.
     Journal Code: Z0528B (Fig. 3, Tbl. 1, Ref. 16)
     ISSN: 0386-9695
CY
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                     ***LAK***
     INDUCTION OF
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TI
             ***TUMOR***
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                                              ***LAK***
     ANTI-
                                                             ***CELLS***
                                                                             ON THE 9L
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     IMAYA H [Reprint author]
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AN
TI
      The basis and clinical application of adoptive immunotherapy for malignant
        ***brain***
                           ***tumors***
AU
      NAKAMURA HIROHIKO; SHITARA NOBUYUKI; WADA TERUMI; GENKA SHIGERU; TAKAKURA
CS
      Univ. of Tokyo, Faculty of Medicine
      Biotherapy (Tokyo), (1987) vol. 1, no. 2, pp. 307-312. Journal Code: L0028A (Fig. 3, Tbl. 4, Ref. 11)
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      AUTOADOPTIVE IMMUNOTHERAPY FOR
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                                                                                   USING
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                                            - ***2***
                                                            STIMULATED LYMPHOCYTES.
      AUTOLOGOUS
      KRUSE C A [Reprint author]; WALDROP S; JEWETT P; BUNN P C
AU
      DIV SURG ONCOL, UNIV COLO HEALTH SCI CENT, DENVER, COLO 80262, USA
CS
SO
      Journal of Cellular Biochemistry Supplement, (1987) No. 11 PART D, pp.
      Meeting Info.: SYMPOSIUM ON THE T CELL RECEPTOR HELD AT THE 16TH ANNUAL MEETING OF THE UCLA (UNIVERSITY OF CALIFORNIA-LOS ANGELES) SYMPOSIA ON MOLECULAR AND CELLULAR BIOLOGY, LOS ANGELES, CALIFORNIA, USA, APRIL 26-MAY
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AN
      The Genuine Article (R) Number: J8400 LOCAL-ADMINISTRATION OF AUTOLOGOUS
GA
                                                 ***LYMPHOKINE***
TI
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                        - ***CELLS***
                                             AND RECOMBINANT
                                                                  ***INTERLEUKIN***
        ***KILLER***
        ***2***
                                                       ***BRAIN***
                   TO PATIENTS WITH MALIGNANT
                                                                         ***TUMORS***
AU
      YOSHIDA S (Reprint); TANAKA R; TAKAI N
CS
      NIIGATA UNIV, DEPT NEUROSURG, NIIGATA 95021, JAPAN
CYA
      JAPAN
      JOURNAL OF NEURO-ONCOLOGY, (1987) Vol. 5, No. 2, pp. 188.
SO
DT
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FS
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LA
     No References
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L10
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INTRACEREBRAL LAK-IL-2 FOR RAT
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                                             ***BRAIN***
                                                                 ***TUMOR***
                                                                                 THERAPY.
     HAYES R L [Reprint author]

NEW YORK UNIV MED CENT, NEW YORK, NY 10016, USA

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Meeting Info.: SECOND INTERNATIONAL CONGRESS OF NEUROIMMUNOLOGY,
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SO
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THE ADOPTIVE IMMUNOTHERAPY OF HUMAN
ΤI
                                                                ***BRAIN***
                                                                                           ***TUMORS***
                                                                                                                   WITH
           ***LYMPHOKINE*** - ***ACTIVATED***
                                                                          ***KILLER***
                                                                                                     ***CELLS***
       OKAMOTO Y [Reprint author]; SHIMIZU K; MIYAO Y; MATSUI Y; YAMADA M; TSUDA N; MOGANI M
        AND RECOMBINANT ***INTERLEUKIN*** - ***2***
AU
       DEP NEUROSURG, OSAKA UNIV, OSAKA, JPN
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